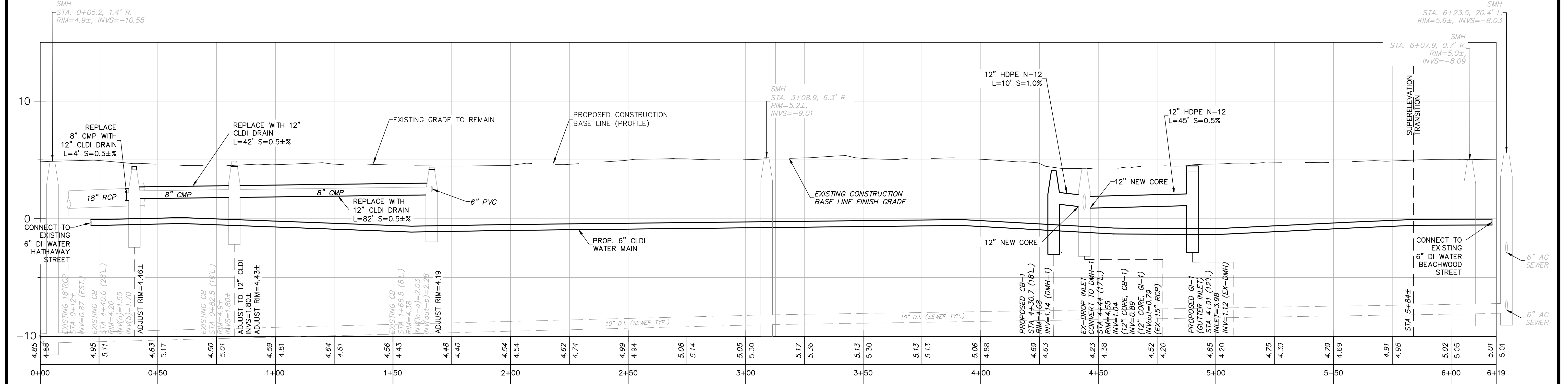


PLAN
SCALE: HORIZ: 1" = 20'



PROFILE
SCALE: HORIZ: 1" = 20'
VERT: 1" = 4'

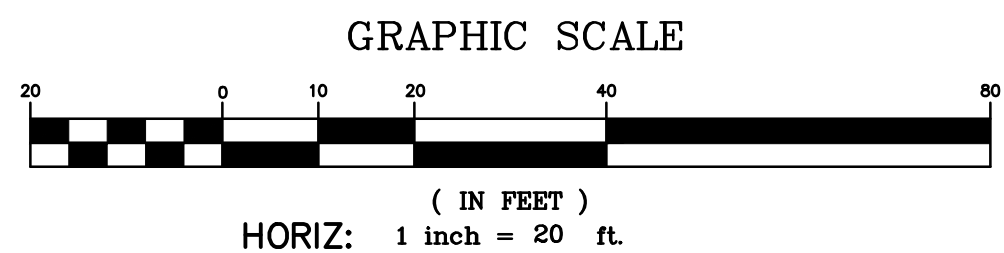
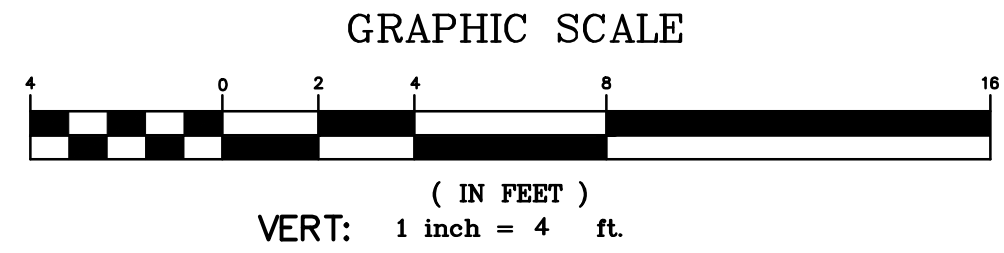
SITE IMPROVEMENT LEGEND

	SILT SACK		PROPOSED 6" CLDI WATER MAIN
	EROSION CONTROL FILTER TUBE		PROPOSED 1" COPPER WATER SERVICE
	PROPOSED HYDRANT		PROPOSED DI GATE VALVE
	PROPOSED CURB STOP & CURB BOX		PROPOSED END CAP, SIZE PER PLAN

WETLAND RESOURCE AREA LEGEND

	COASTAL DUNE AND BEACH BOUNDARY (BY GCG)
	25' COASTAL DUNE AND BEACH BUFFER
	50' COASTAL DUNE AND BEACH BUFFER
	100' COASTAL DUNE AND BEACH BUFFER

NOTE:
COVE STREET IS IN FLOOD ZONE AE (EL. 14) & COASTAL FLOOD VELOCITY ZONE VE (EL. 16) PER FIRM MAP NUMBER 2505C0394H, MAP REVISED JULY 6, 2021. BASED ON VERTICAL DATUM NAVD 88.



REV. #	DATE	REVISION DESCRIPTION	BY
3	02/21/2024	UPGRADED DRAINPIPE SIZE	ACM
2	02/09/2024	DELETE PAVING	ACM
1	05/16/2023	UPDATE RESOURCE AREA	ACM



**TOWN OF FAIRHAVEN,
MASSACHUSETTS**

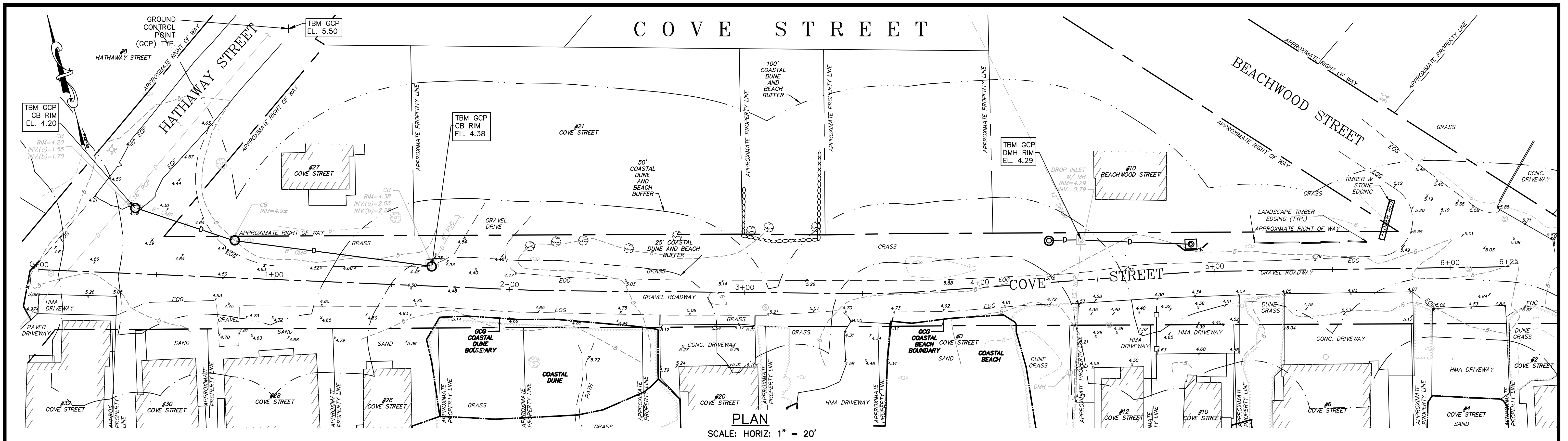
**COVE STREET UTILITIES IMPROVEMENT
NOTICE OF INTENT
PLAN AND PROFILE**

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

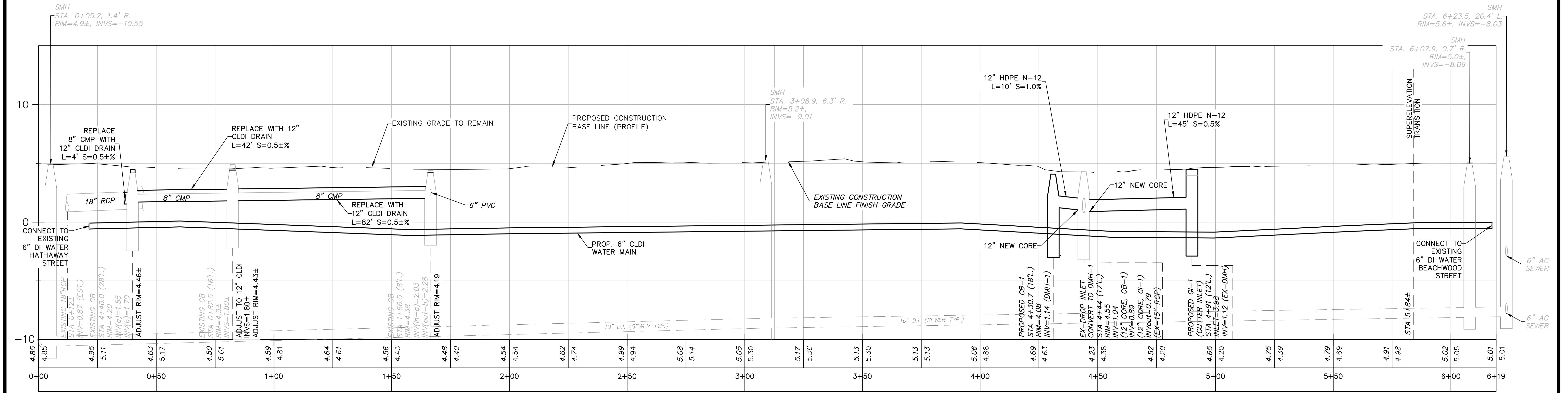
SCALE: 1" = 20' DATE: APRIL 18, 2023

JOB NO. / FILE NAME:	DESIGNED BY: L.P.B.	PLAN NO.
COVE STREET - PLAN AND PROFILE	DRAWN BY: L.P.B.	1 OF 4
	CHECKED BY: M.J.C.	

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PLAN
SCALE: HORIZ: 1" = 20'



PROFILE
SCALE: HORIZ: 1" = 20'
VERT: 1" = 4'

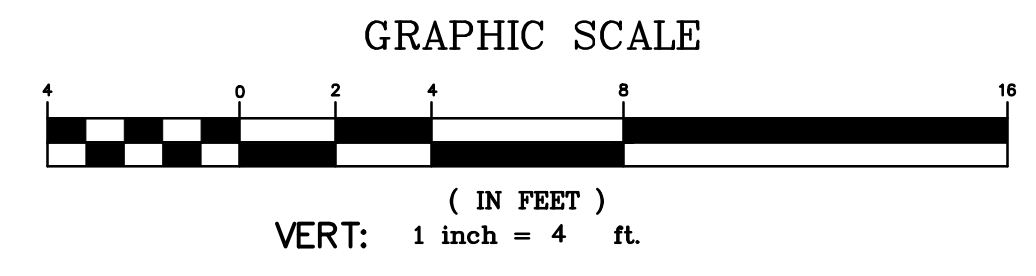
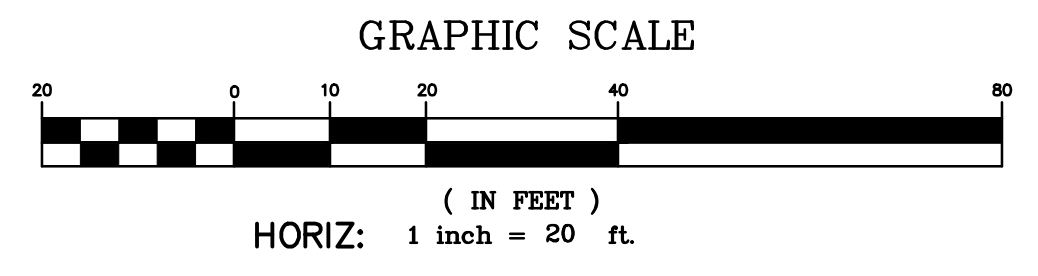
SITE GRADING LEGEND

4.6	EXISTING SPOT ELEVATION
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WETLAND RESOURCE AREA LEGEND

---	COASTAL DUNE AND BEACH BOUNDARY (BY GCG)
---	25' COASTAL DUNE AND BEACH BUFFER
---	50' COASTAL DUNE AND BEACH BUFFER
---	100' COASTAL DUNE AND BEACH BUFFER

NOTE:
COVE STREET IS IN FLOOD ZONE AE (EL. 14) & COASTAL FLOOD VELOCITY ZONE VE (EL. 16) PER FIRM MAP NUMBER 25005C0394H, MAP REVISED JULY 6, 2021. BASED ON VERTICAL DATUM NAVD 88.



NOTE:
COVE STREET IS IN FLOOD ZONE AE (EL. 14) & COASTAL FLOOD VELOCITY ZONE VE (EL. 16) PER FIRM MAP NUMBER 25005C0394H, MAP REVISED JULY 6, 2021. BASED ON VERTICAL DATUM NAVD 88.

REV. #	DATE	REVISION DESCRIPTION	BY
3	02/21/2024	UPGRADED DRAINPIPE SIZE	ACM
2	02/09/2024	DELETE PAVING	ACM
1	05/16/2023	UPDATE RESOURCE AREA	ACM



TOWN OF FAIRHAVEN, MASSACHUSETTS

COVE STREET UTILITIES IMPROVEMENT NOTICE OF INTENT RESOURCE PROFILE

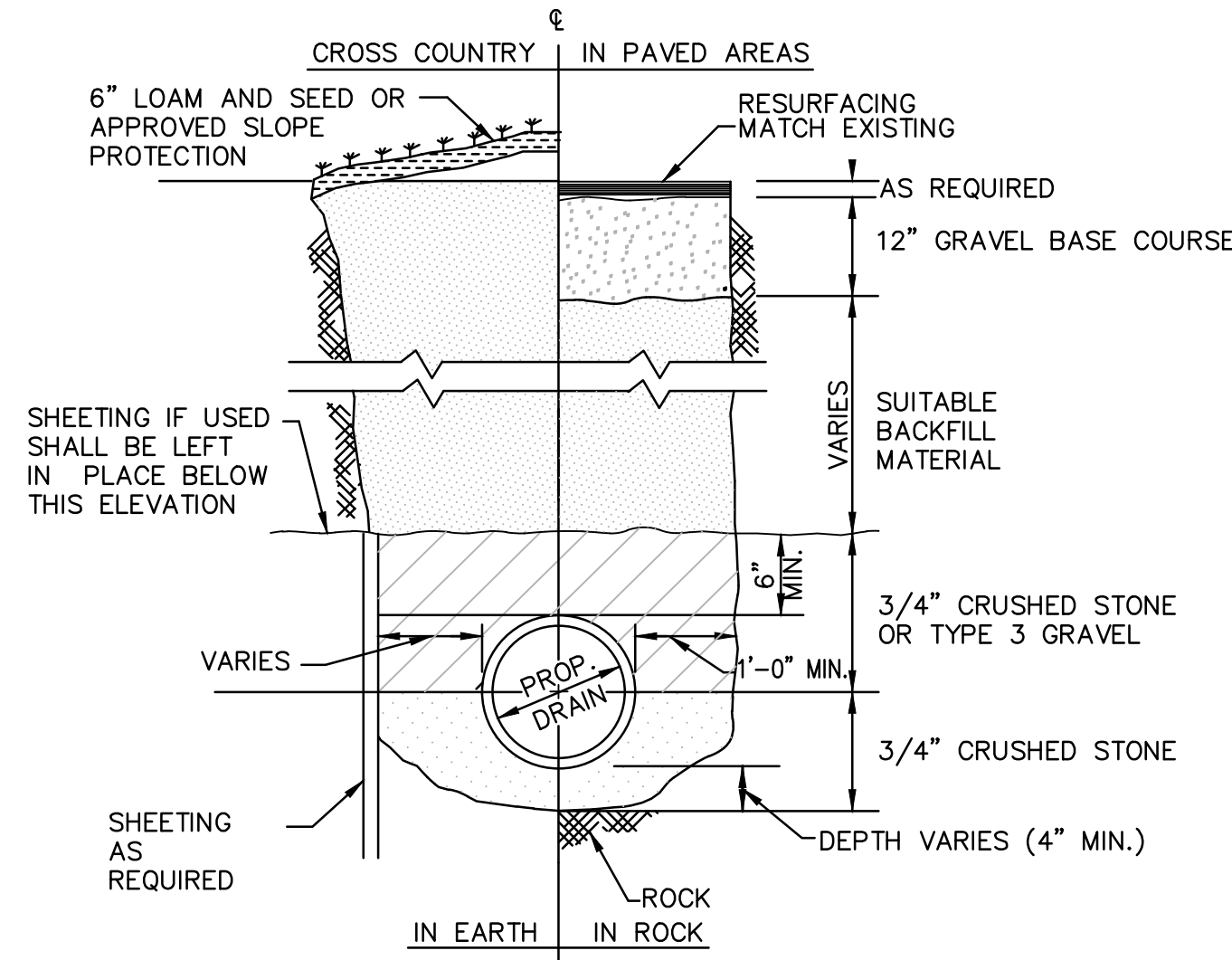
GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1" = 20' DATE: APRIL 18, 2023

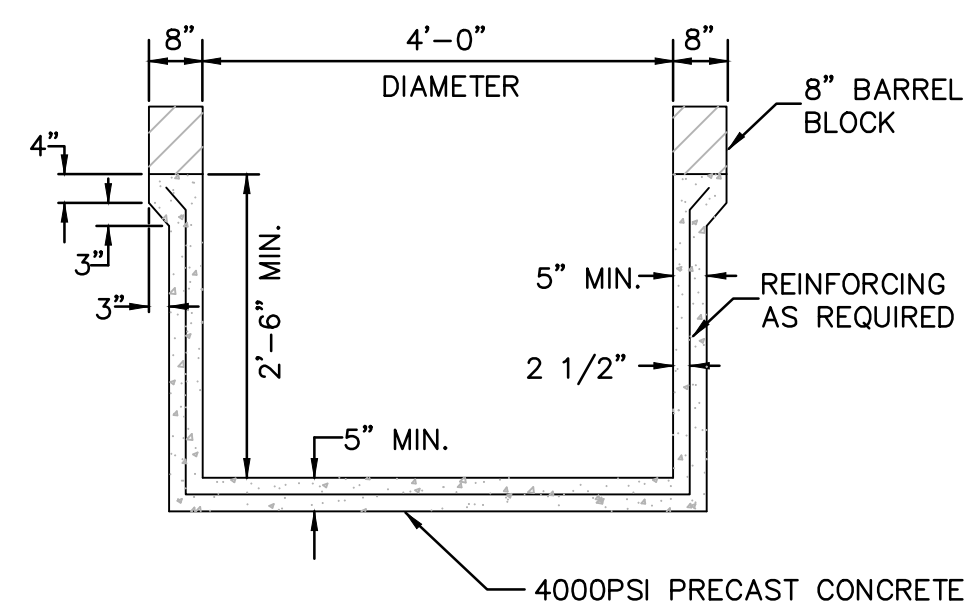
JOB NO./FILE NAME: COVE STREET - PLAN AND PROFILE
DESIGNED BY: L.P.B.
DRAWN BY: L.P.B.
CHECKED BY: M.J.C.

PLAN NO. 2 OF 4

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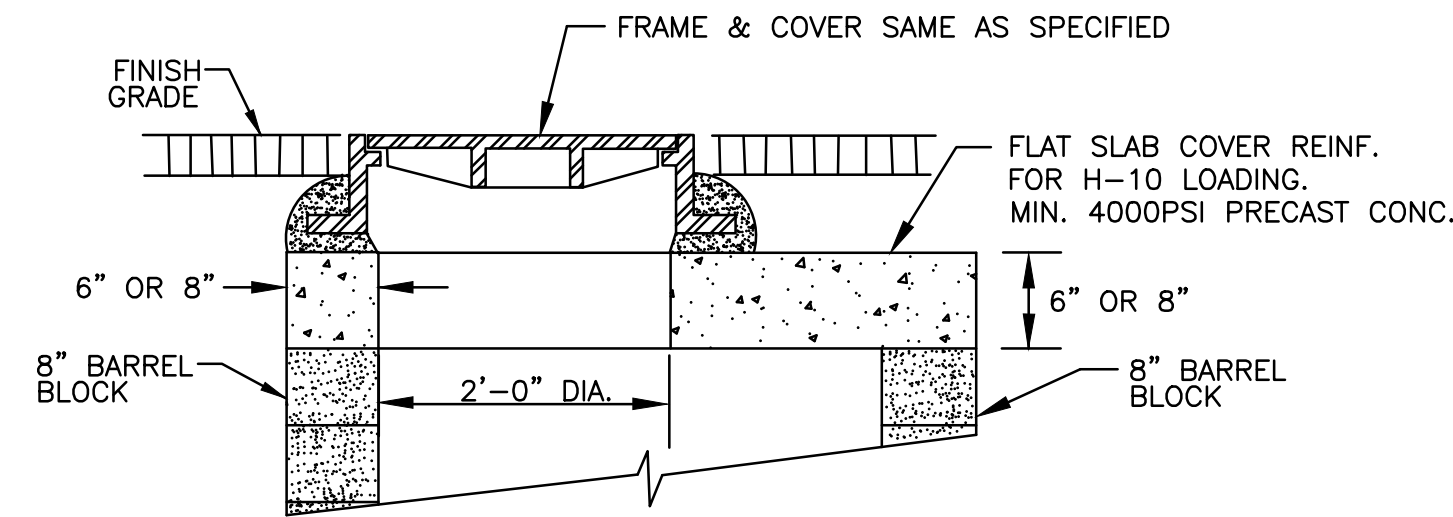


TYPICAL DRAIN TRENCH DETAIL
NOT TO SCALE

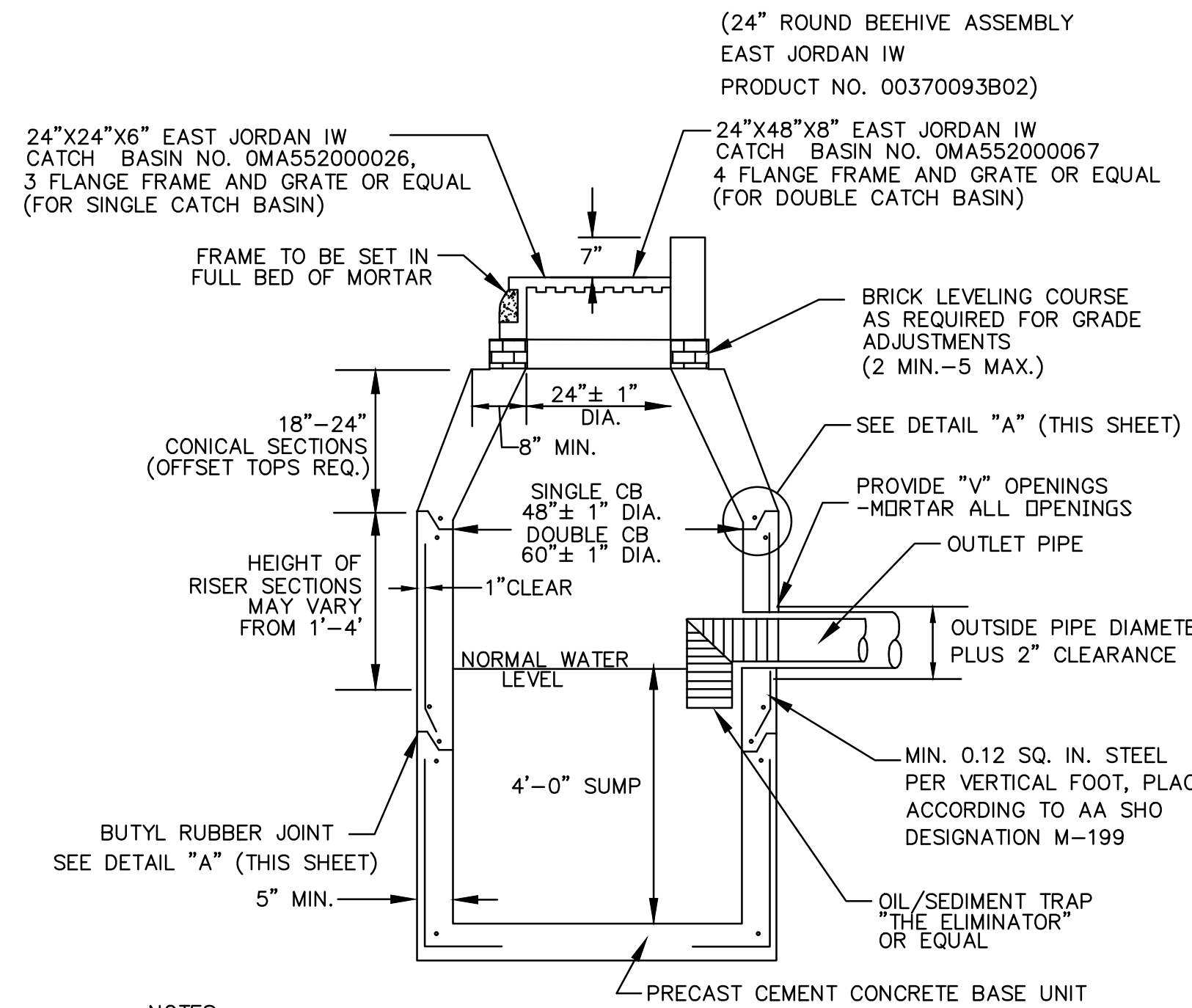


PRECAST CONCRETE CATCH BASIN SUMP
NOT TO SCALE

- NOTE:
1. PRECAST CONCRETE SUMP TO CONFORM TO ASTM C478.
 2. CONCRETE SHALL BE 4000 PSI MINIMUM.
 3. STEEL REINFORCEMENT TO MEET OR EXCEED H-20 LOADING.
 4. REINFORCING STEEL 0.12 SQ.IN./LF & 0.12 SQ.IN. (BOTH WAYS) BASE BOTTOM.

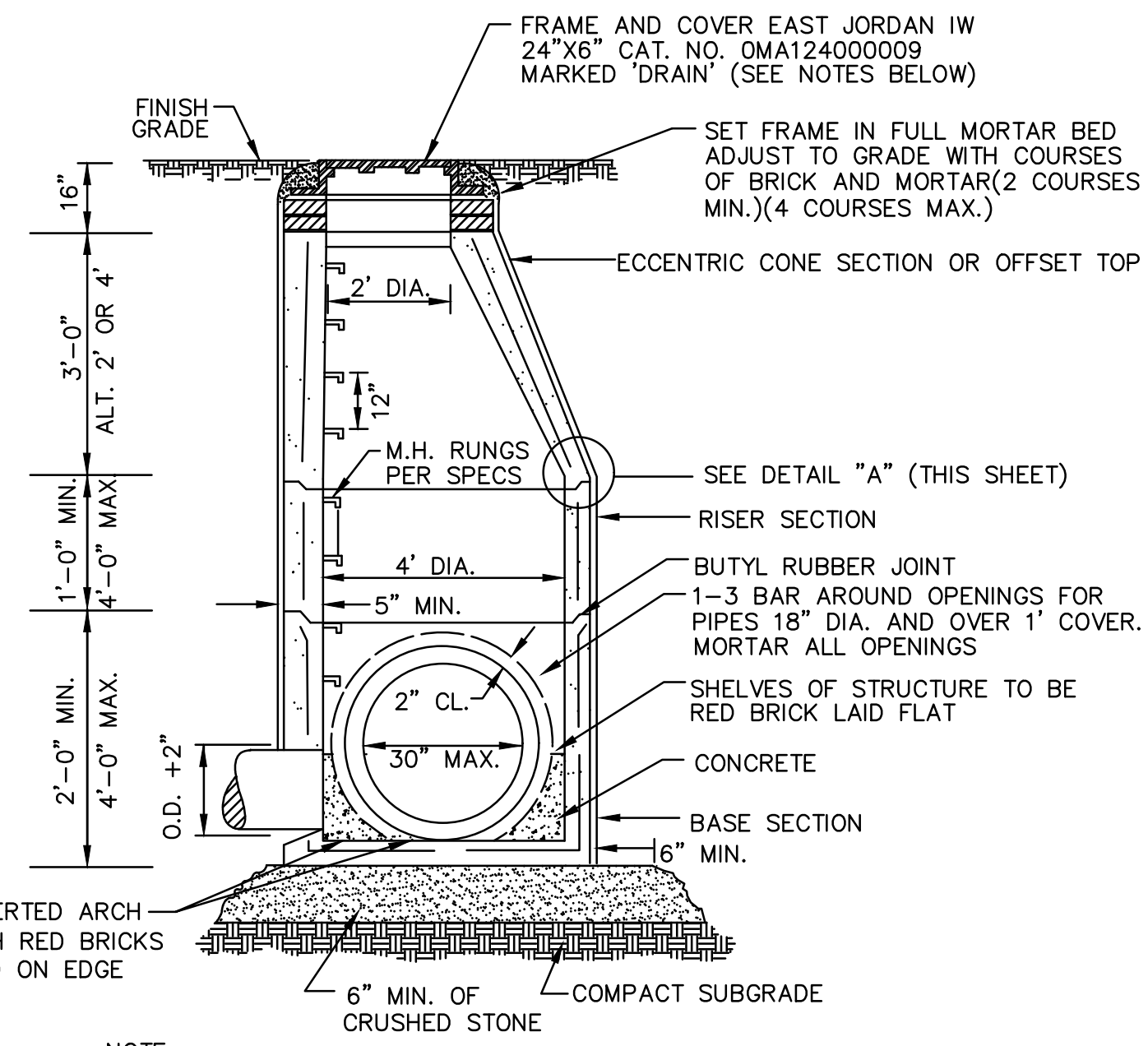


OFFSET TOP FOR ALL MANHOLES & CATCH BASINS
NOT TO SCALE



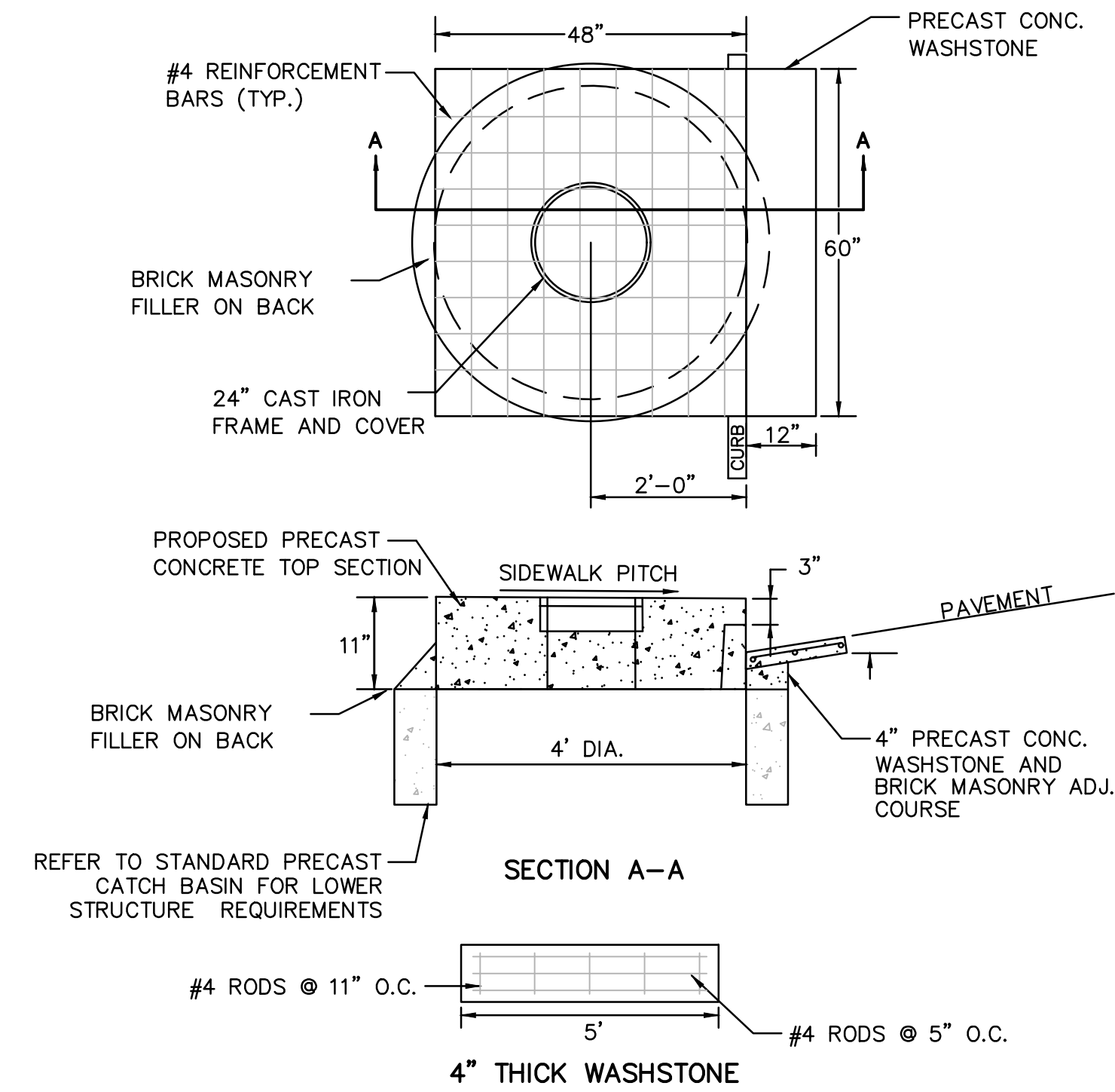
PRECAST CONCRETE CATCH BASIN
WITH GRANITE CURB INLET
NOT TO SCALE

DETAIL "A"
NOT TO SCALE



TYPICAL PRECAST DRAIN MANHOLE
NOT TO SCALE

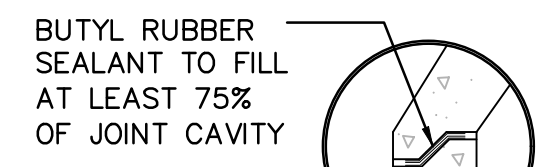
- NOTE:
1. PRECAST REINFORCED CONCRETE MANHOLE BASE, CONE AND RISER SECTIONS PER A.S.T.M. C-478 PIPE OPENINGS TO BE PRECAST IN BASE SECTION
 2. MINIMUM 4000 PSI PRECAST CONCRETE



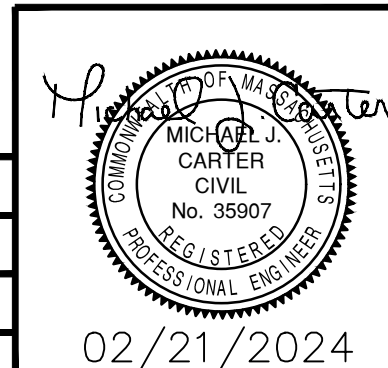
GUTTER INLET (GI)
BRADLEY HEAD COVER AND WASHSTONE

1. CONCRETE TO BE 5000 PSI.
2. BRICKS MAY BE USED BETWEEN TOP COURSE & COVER FOR FINE ADJUSTMENT.
3. LOWER SECTION OF GUTTER INLET STRUCTURE TO BE THE SAME AS STANDARD CATCH BASIN WITH SUMP.
4. INCLUDE OIL/SEDIMENT TRAP.
5. MANUFACTURER: BRISTOL COUNTY PRECAST, WESTPORT, MA OR EQUAL.

- NOTES:
- 1.) PRECAST REINFORCED CONCRETE CB BASE, CONE AND RISER SECTIONS PER A.S.T.M. C-478. MINIMUM 4000 PSI CONCRETE.
 - 2.) PRECAST CONCRETE STRUCTURE SHALL BE RATED FOR AASHTO HS-20 LOADING.
 - 3.) DOUBLE GRATED CATCH BASINS SHALL BE 5' IN DIAMETER, HAVE 6" WALLS AND PROVIDE A MIN. OPENING OF 24"x36".



REV. #	DATE	REVISION DESCRIPTION	BY
3	02/21/2024	G.I. W/ PRECAST CB BASE	ACM
2	02/09/2024	DELETE PAVING	ACM
1	05/16/2023	NO CHANGES THIS SHEET	ACM



**TOWN OF FAIRHAVEN,
MASSACHUSETTS**

**COVE STREET UTILITIES IMPROVEMENT
NOTICE OF INTENT
DETAILS I**

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1" = 20' DATE: APRIL 18, 2023

JOB NO. \FILE NAME:	DESIGNED BY: L.P.B.	PLAN NO.
21109-COVE.DWG	DRAWN BY: L.P.B.	3 OF 4
	CHECKED BY: M.J.C.	

GENERAL

THIS PLAN PROPOSES EROSION CONTROL MEASURES TO ADEQUATELY CONTROL ACCELERATED SEDIMENTATION AND REDUCE THE DANGER FROM STORM WATER RUNOFF AT THE SITE. THE RUNOFF SHALL BE CONTROLLED BY THE INTERCEPTION, DIVERSION, AND SAFE DISPOSAL OF PRECIPITATION. RUNOFF SHALL ALSO BE CONTROLLED BY STAGING CONSTRUCTION ACTIVITY AND PRESERVING NATURAL VEGETATION WHEREVER POSSIBLE.

EXISTING VEGETATION SHALL BE PROTECTED AND ONLY THAT CLEARING AND GRUBBING ABSOLUTELY NECESSARY TO THE PROPOSED CONSTRUCTION SHALL BE PERFORMED. ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND CONTOUR, UNLESS OTHERWISE INDICATED ON THE PLANS. THE CONTRACTOR SHALL TAKE SPECIAL CARE WITH HIS CONSTRUCTION METHODS AND SHALL COMPLY WITH THE FOLLOWING GUIDELINES.

SEDIMENTATION CONTROL

ALL AREAS SHALL BE PROTECTED FROM SEDIMENTATION DURING AND AFTER CONSTRUCTION, PARTICULARLY THE STORAGE OF EXCAVATED OR STOCKPILED MATERIAL. THE CONTRACTOR SHALL CAREFULLY STRIP ALL TOPSOIL, LOAM, OR ORGANIC MATTER PRIOR TO THE TRENCHING OR OTHER OPERATIONS AND SHALL STORE THEM SEPARATELY FROM ALL OTHER MATERIALS DURING EXCAVATION. EACH STOCKPILE MUST BE ADEQUATELY RINGED WITH SEDIMENT CONTROL MATERIAL (i.e., STRAW FILTER TUBES).

DEBRIS AND OTHER WASTE RESULTING FROM EQUIPMENT MAINTENANCE AND CONSTRUCTION WILL NOT BE DISCARDED ON SITE.

STABILIZING OF SLOPES SHALL BE DONE IMMEDIATELY AFTER CONSTRUCTION OF SLOPES. SLOPES STEEPER THAN 3:1 SHALL BE PROTECTED WITH EROSION MATS. THESE MATS ARE MANUFACTURED COMBINATIONS OF MULCH AND NETTING AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL OTHER AREAS SHALL BE MULCHED WITH STRAW AT A RATE OF 1.5 TO 2 TONS PER ACRE. STRAW MULCH MUST BE ANCHORED IMMEDIATELY AFTER SPREADING TO PREVENT WINDBLOWING.

EROSION AND SEDIMENTATION CONTROL PLAN

SEDIMENTATION CONTROL SYSTEM - THE SEDIMENTATION CONTROL SYSTEM SHALL CONSIST OF STRAW FILTER TUBES. THE SEDIMENTATION CONTROL SYSTEM SHALL BE INSTALLED IMMEDIATELY AFTER A CUT SLOPE HAS BEEN GRADED, BEFORE A FILL SLOPE HAS BEEN CREATED, AND AS INDICATED ON THE PLANS. DESIGN THE SYSTEM TO INTERCEPT SILT AND SEDIMENT BEFORE IT REACHES THE WETLANDS OR WATERCOURSES. DEPOSITS OF SEDIMENT AND SILT ARE TO BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDE OF THE FENCE. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR IN AREAS WHICH ARE NOT TO BE PAVED OR BUILT ON. THE SEDIMENTATION CONTROL SYSTEM IS TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. THE SYSTEM IS TO REMAIN IN PLACE AND BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE FENCE ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.

STRAW FILTER TUBES (IN ADDITION TO CRUSHED STONE) USED FOR EROSION CONTROL SHALL BE RINGED AT CATCH BASINS LOCATED IN AREAS THAT WILL NOT BE PAVED AND WHERE SEDIMENT MAY ENTER THE CATCH BASIN OR AS DIRECTED BY THE RESIDENT ENGINEER. DEPOSITS OF SEDIMENT AND SILT ARE TO BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDE OF THE EROSION CHECKS. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR IN AREAS WHICH ARE NOT TO BE PAVED OR BUILT ON. STRAW FILTER TUBES ARE TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. THE SYSTEM IS TO REMAIN IN PLACE AND BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE EROSION CHECKS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.

SILT SACK - SILT SACKS SHALL BE PLACED WITHIN ALL CATCH BASINS PRIOR TO CONSTRUCTION OR IMMEDIATELY AFTER INSTALLATION OF NEW CATCH BASINS. DEPOSITS OF SEDIMENT ARE TO BE PERIODICALLY REMOVED DURING CONSTRUCTION AND SPREAD AS DESCRIBED ABOVE. SILT SACKS SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE AND SURROUNDING AREAS ARE STABILIZED.

IN ALL AREAS, REMOVAL OF TREES, BUSHES, AND OTHER VEGETATION, AND DISTURBANCE TO THE SOIL, IS TO BE KEPT TO AN ABSOLUTE MINIMUM WHILE ALLOWING PROPER DEVELOPMENT OF THE SITE.

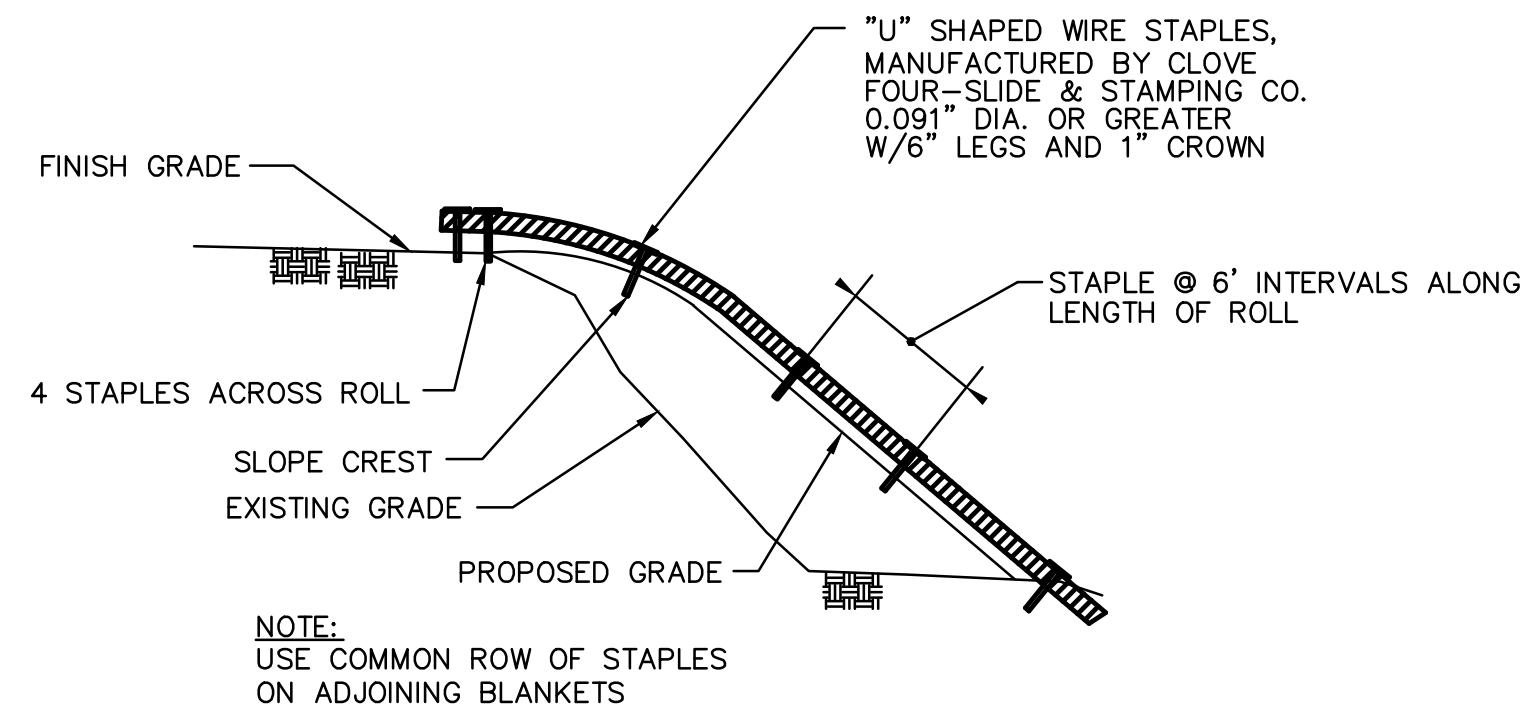
DEWATERING OF GROUNDWATER MAY BE NECESSARY DURING CONSTRUCTION. ALL DEWATERING ACTIVITIES SHALL BE CONDUCTED IN A MANNER THAT WILL NOT INTRODUCE SILT, SEDIMENT, CONTAMINATION, ETC. INTO A WETLAND RESOURCE AREA OR AN ADJACENT UPLAND RESOURCE AREA. DISCHARGED GROUNDWATER SHALL BE PROPERLY DETAINED, SETTLED, FILTERED OR OTHERWISE TREATED PRIOR TO ENTERING A WETLAND RESOURCE AREA OR AN ADJACENT UPLAND RESOURCE AREA (SEE DEWATERING DETAIL).

EROSION AND SEDIMENT CONTROL MAINTENANCE PROCEDURES

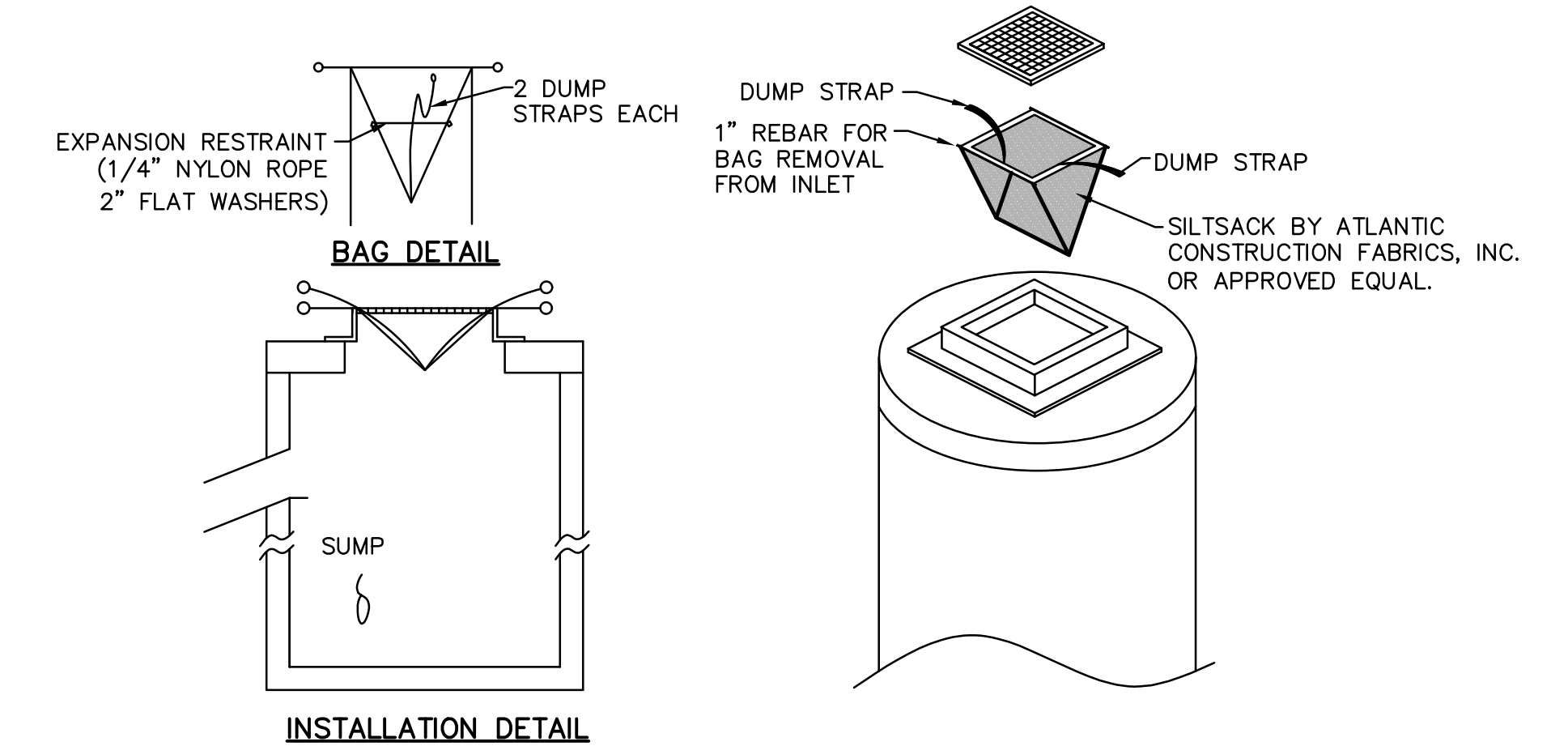
DURING CONSTRUCTION, AS SMALL AN AREA OF SOIL AS POSSIBLE SHOULD BE EXPOSED FOR AS SHORT A TIME AS POSSIBLE. AFTER CONSTRUCTION, GRADE, RESPREAD TOPSOIL, AND STABILIZE SOIL BY SEEDING AND MULCHING TO PREVENT EROSION.

ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE INSPECTED DURING CONSTRUCTION ON A DAILY BASIS AND FOLLOWING ALL STORMS BY THE RESIDENT ENGINEER. THE CONTRACTOR SHALL MAINTAIN AND MAKE REPAIRS AND REMOVE SEDIMENT AS REQUESTED BY THE RESIDENT ENGINEER. THIS WORK SHALL BE PERFORMED WITHIN 24 HOURS OF REQUEST.

THE CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS FROM ALL DRAINAGE STRUCTURES AND PIPES. AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REPAIR ALL ERODED AREAS AND ENSURE A GOOD STAND OF TURF IS ESTABLISHED THROUGHOUT. THE CONTRACTOR SHALL REPAIR ALL ERODED OR DISPLACED RIPRAP, AND CLEAN SEDIMENT COVERED STONES.

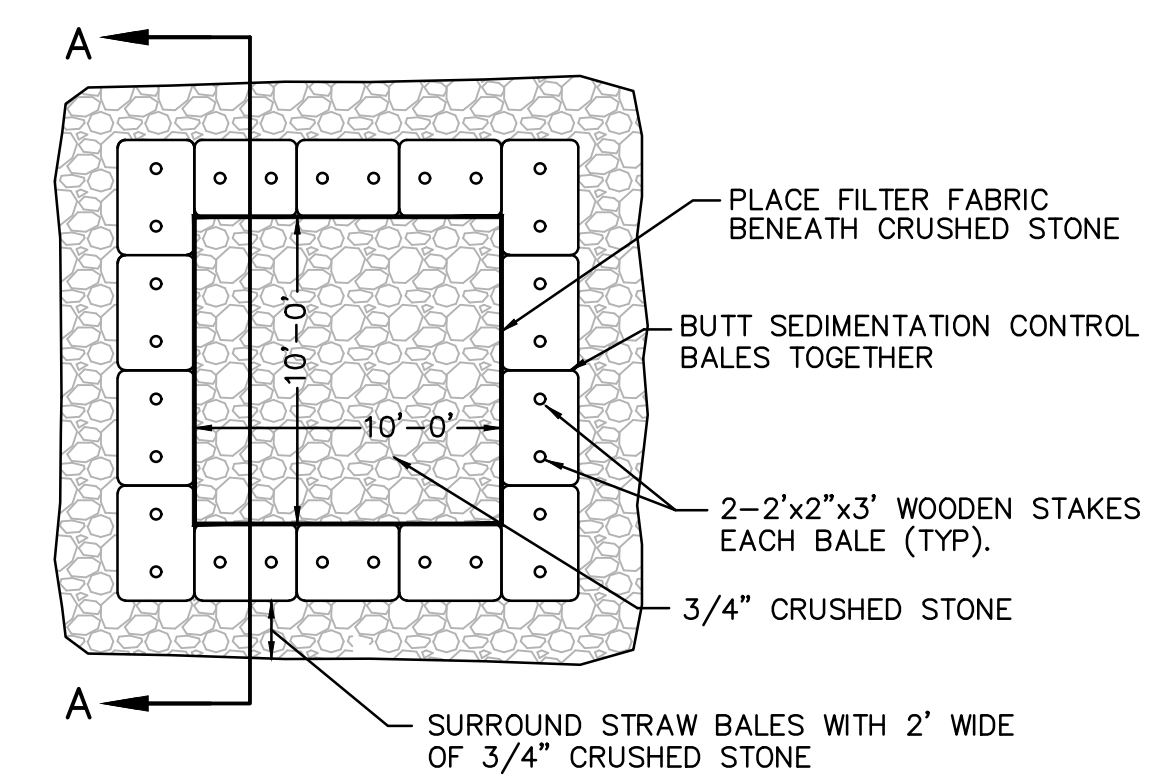


EROSION CONTROL BLANKET DETAIL
N.T.S.

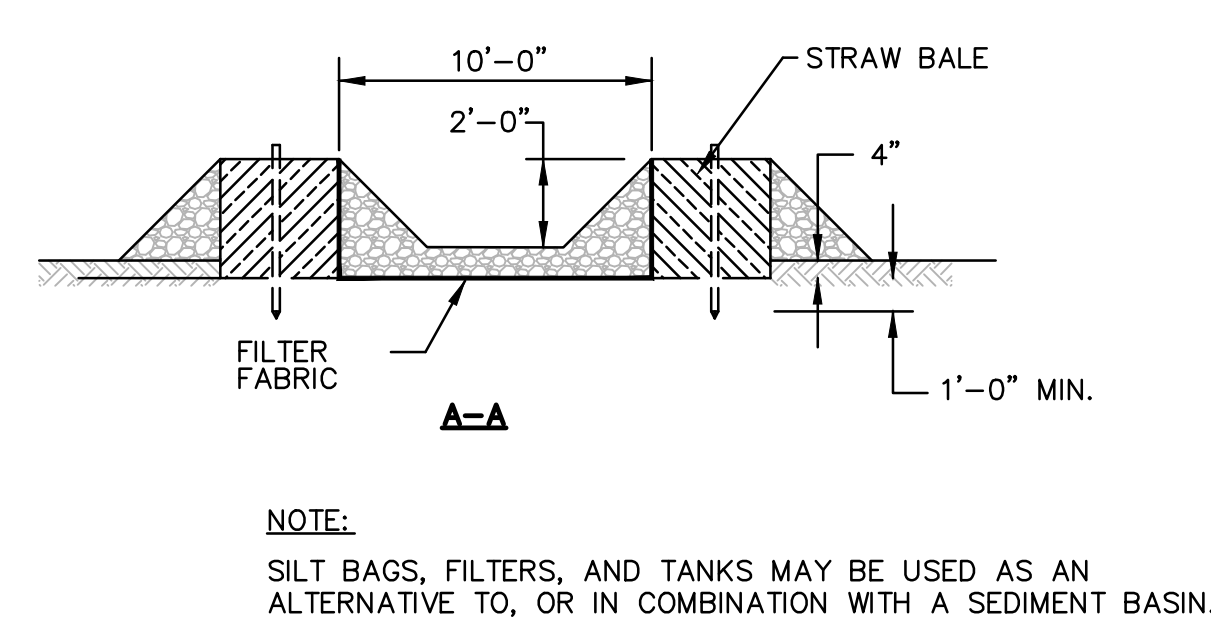


1. SILT SACKS SHALL BE INSTALLED IN ALL CATCH BASINS DURING CONSTRUCTION PERIOD.
2. INSPECTION SHALL BE WEEKLY AND REPAIR/REPLACEMENT MADE PROMPTLY AS NEEDED.
3. SILT SACKS SHALL BE KEPT CLEAN AND FREE OF DEBRIS.

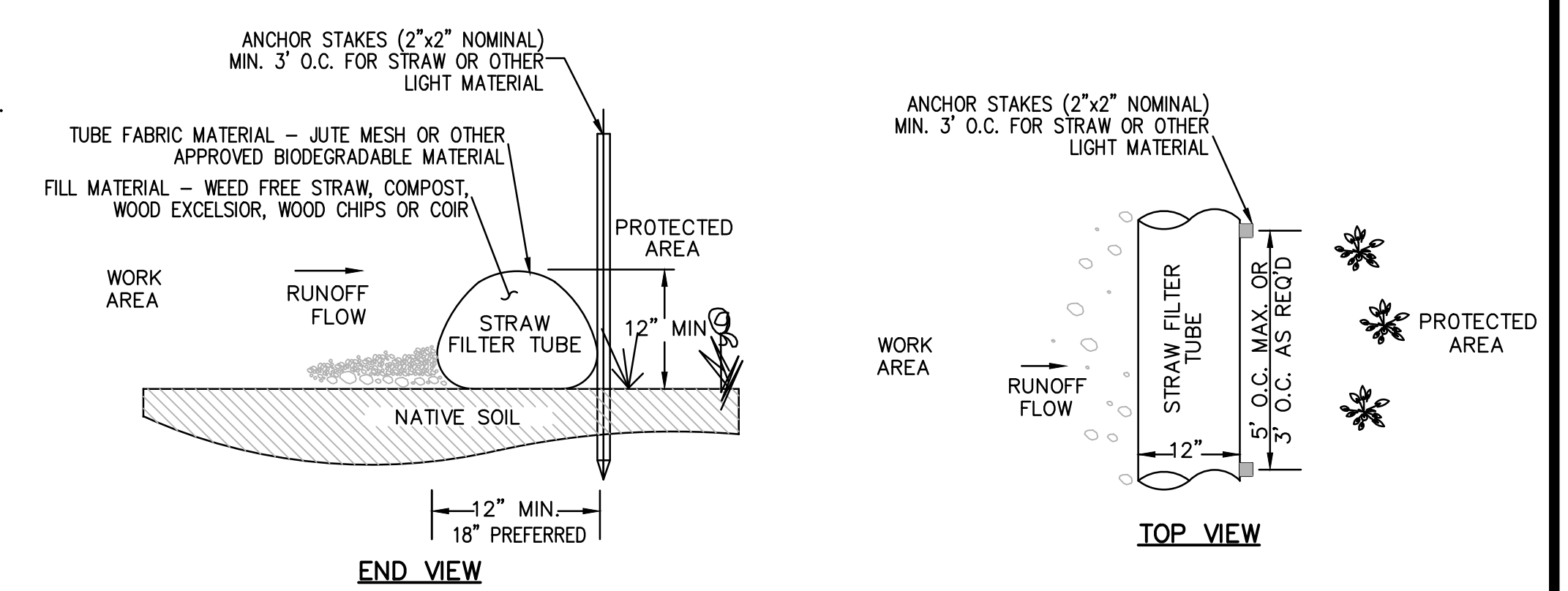
SILTSACK DETAIL
N.T.S.



SEDIMENTATION CONTROL SYSTEM FOR ONSITE DEWATERING
N.T.S.

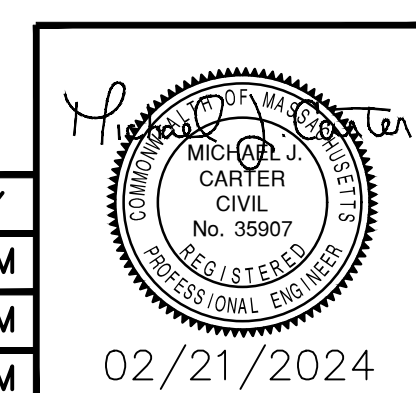


NOTE:
SILT BAGS, FILTERS, AND TANKS MAY BE USED AS AN ALTERNATIVE TO, OR IN COMBINATION WITH A SEDIMENT BASIN.



- NOTES:
1. TUBES MAY BE FILLED ON SITE OR SHIPPED.
 2. ENSURE PROPER LOCATION AT SITE FOR EFFECTIVENESS.
 3. TUBES SHALL BE PLACED AND STAKED IN PLACE AS REQUIRED TO ENSURE STABILITY AGAINST WATER FLOWS.
 4. TUBES FILLED WITH LIGHT MATERIAL SHALL BE STAKED AT A MAXIMUM OF 3 FEET ON CENTER. FOR HEAVIER MATERIAL, 5 FEET ON CENTER.
 5. TUBES SHALL BE TAMPED TO ENSURE GOOD CONTACT WITH SOIL.
 6. INSPECT AFTER EACH RAINFALL OR DAILY DURING RAINFALL EVENTS. CORRECT ALL DEFICIENCIES IMMEDIATELY.
 7. FAILURE INCLUDES BUT IS NOT LIMITED TO WASHOUT, OVERTOPPING, CLOGGING, AND EROSION. IF OVERTOPPING OR WASHOUT OCCURS, NEW FILTER TUBES WITH ADDITIONAL STAKING OR STRAW MATERIAL SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.
 8. FILTER TUBES SHALL BE REMOVED ONCE SITE WORK IS COMPLETE, SITE IS STABLE, ADEQUATE GROWTH HAS BEEN ESTABLISHED AND AS DIRECTED BY THE ENGINEER. TUBE FABRIC SHALL BE CUT, REMOVED AND DISPOSED OF OFF-SITE BY THE CONTRACTOR AT NO ADDITIONAL COST.

STRAW FILTER TUBE DETAIL
N.T.S.



**TOWN OF FAIRHAVEN,
MASSACHUSETTS**

**COVE STREET UTILITIES IMPROVEMENT
NOTICE OF INTENT
DETAILS II**

GCG ASSOCIATES, INC.
WILMINGTON MASSACHUSETTS

SCALE: 1" = 20' DATE: APRIL 18, 2023

JOB NO. \ FILE NAME: 21109-COVE.DWG	DESIGNED BY: L.P.B. DRAWN BY: L.P.B. CHECKED BY: M.J.C.	PLAN NO. 4 OF 4
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REV. #	DATE	REVISION DESCRIPTION	BY
3	02/21/2024	NO CHANGES THIS SHEET	ACM
2	02/09/2024	NO CHANGES THIS SHEET	ACM
1	05/16/2023	NO CHANGES THIS SHEET	ACM

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