ADDENDUM NO. 4

BREWSTER CENTRAL SCHOOL DISTRICT
BREWSTER HIGH SCHOOL
SECURITY VESTIBULE, SYNTHETIC FIELD AND RELATED WORK

The attention of Bidders submitting proposals for work on the Security Vestibule, Synthetic Field and Related Work at Brewster High School is called to the following Addendum to the Contract Forms and Specifications.

The items set forth herein, whether of omission, addition, substitution or clarification are to be included in and form a part of the proposal submitted. This Addendum is hereby included in and made a part of the Contract Documents, dated April 23, 2024, whether or not attached thereto. All requirements of the original project specifications and drawings shall remain in force except as amended by this addendum.

This Addendum contains changes to the requirements of the Contract Documents. Such changes shall be incorporated into the contract Documents and shall apply to the work with the same meaning and force as if they had been included in the original documents. Wherever or any portion of a drawing, the remainder of the paragraph or drawing affected shall remain in force.

The conditions of the Specifications shall govern all work described in this Addendum. Wherever the conditions of work and the quality or quantity of materials or workmanship are not fully described in this Addendum, the conditions of work, etc., described by the Specifications or drawings for similar items of work shall apply to the work described in this Addendum.

FULLER AND D'ANGELO, P.C..
ARCHITECTS AND PLANNERS
45 KNOLLWOOD ROAD
ELMSFORD, NEW YORK 10523

DATE: May 7, 2024

This Addendum consists of two (2) pages plus Sketches SK-10, SK-11, SK-12, specification section 32 1413 Brick Pavers, revised drawing BHS C401, C501, C601, C602, C707 & C708.

THE FOLLOWING ARE MODIFICATIONS, CLARIFICATIONS, DELETIONS OR ADDITIONS TO THE SPECIFICATIONS:

TABLE OF CONTENTS
ADD specification section "32 1413 Brick Pavers".

SECTION 32 1413 – BRICK PAVERS
ADD specification section attached to this addendum.

SECTION 32 1822 – SYNTHETIC GRASS SURFACING
32 1822-10, 3.03.E **DELETE** …"Pressure Treated Wood"…

THE FOLLOWING ARE MODIFICATIONS, CLARIFICATIONS, DELETIONS OR ADDITIONS TO THE DRAWINGS:

BHS C204 – EXISTING CONDITIONS AND REMOVALS PLAN
REVISE removal note as shown on Sketch SK-10 attached to this addendum.

BHS C304 – LAYOUT AND LANDSCAPE PLAN
REVISE work scope note as shown on Sketch SK-11 attached to this addendum.

BHS C401 – GRADING AND UTILITIES PLAN
REVISE Drainage Table as shown on revised drawing attached to this addendum.

BHS C501 – EROSION AND SEDIMENT CONTROL PLAN
REVISE Limit of Disturbance as shown on revised drawing attached to this addendum.

BHS C601 – UTILITY PROFILES
REVISE utility profiles as shown on revised drawing attached to this addendum.

BHS C602 – UTILITY PROFILES
REVISE utility profiles as shown on revised drawing attached to this addendum.

BHS C701 – DETAILS
REVISE Brick Pavers Detail as shown on Sketch SK-12 attached to this addendum.

BHS C707 – DETAILS
REVISE plan and section as shown on revised drawing attached to this addendum.

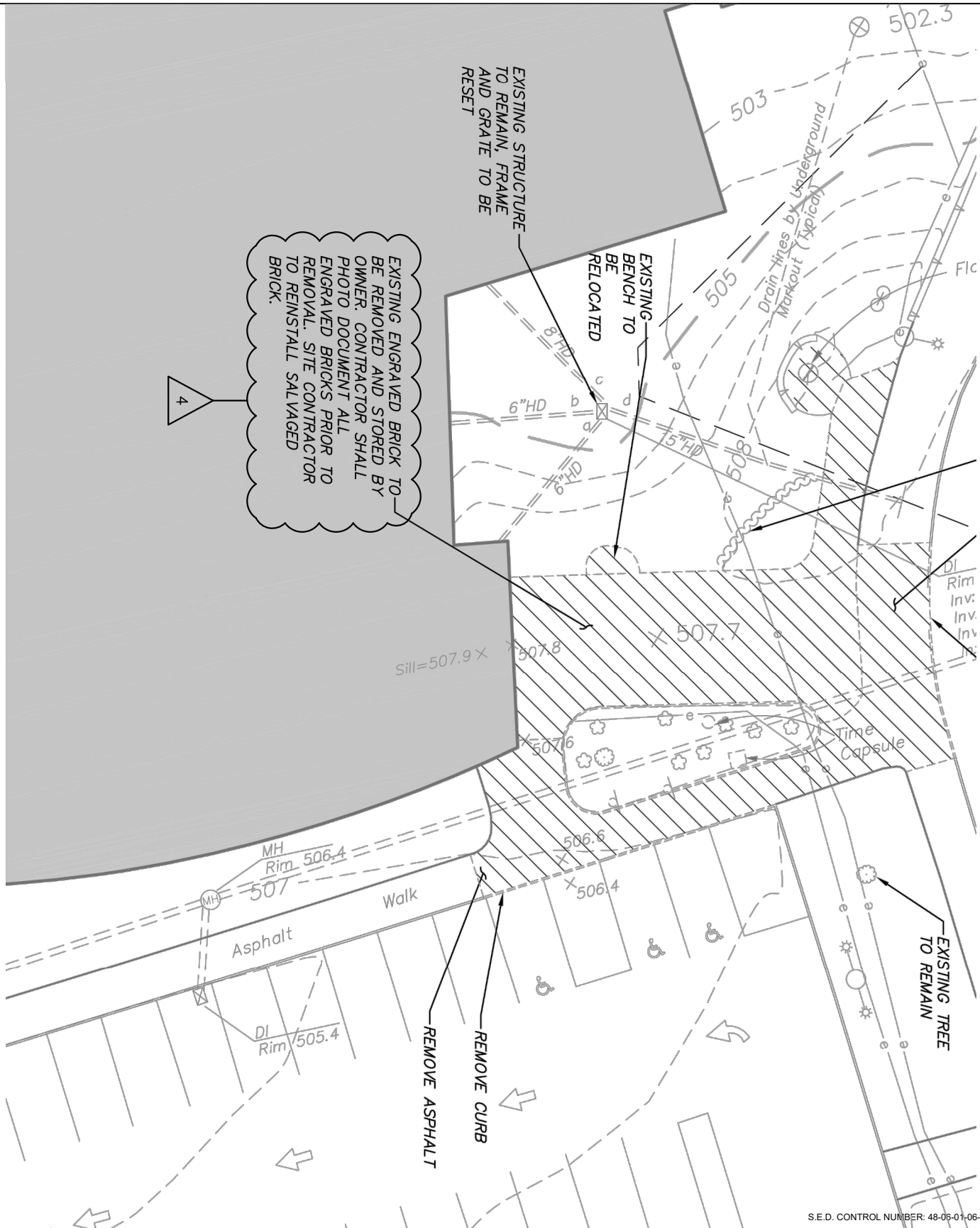
BHS C708 – DETAILS
REVISE Flow Splitter FS 4 Detail as shown on revised drawing attached to this addendum.

END OF ADDENDUM

The following attachments are being provided for informational purposes:

Bidder RFI Responses (In the event of a discrepancy between these responses and the contract documents, the contract documents shall prevail unless modified by addendum.)

Bid RFI-#010 dated 5/6/2024 (1 page).
Bid RFI-#011 dated 5/6/2024 (1 page).
Bid RFI-#012 dated 5/6/2024 (1 page).
Bid RFI-#013 dated 5/6/2024 (1 page).
Bid RFI-#014 dated 5/6/2024 (1 page).
Bid RFI-#015 dated 5/6/2024 (1 page).
Bid RFI-#016 dated 5/6/2024 (1 page).
Bid RFI-#017 dated 5/6/2024 (1 page).
Bid RFI-#018 dated 5/6/2024 (1 page).
Bid RFI-#019 dated 5/6/2024 (1 page).
Bid RFI-#020 dated 5/6/2024 (1 page).
Bid RFI-#021 dated 5/6/2024 (1 page).



S.E.D. CONTROL NUMBER: 48-06-01-06-0-004-018

FULLER D'ANGELO P.C.
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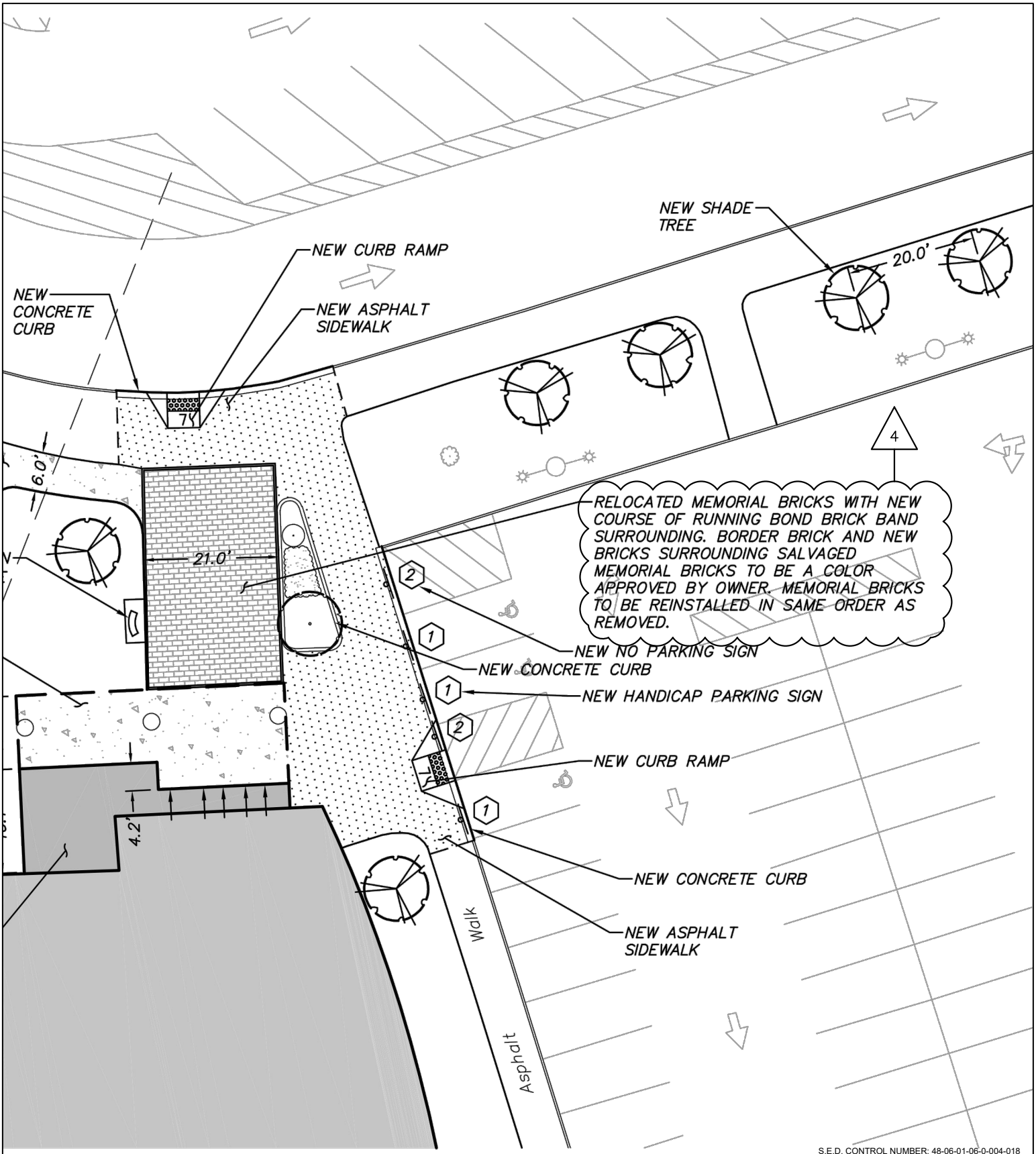
NOTE:
ALL INFORMATION ON ORIGINAL CONTRACT DOCUMENT SHALL PERTAIN UNLESS SPECIFICALLY CHANGED BY THIS DRAWING.

JOB NAME:
BREWSTER CENTRAL SCHOOL DISTRICT
BREWSTER HIGH SCHOOL
SECURITY VESTIBULE, SYNTHETIC FIELD & RELATED WORK
50 FOGGINTOWN ROAD BREWSTER, NY 10509

DRAWING TITLE:
EXISTING CONDITIONS AND REMOVALS PLAN
{REF: C204}

05-07-2024	BID ADDENDUM #4
DATE	ISSUED TO
SCALE:	AS NOTED
FILE NO. 23505.01	DRAWING NO. SK-10



S.E.D. CONTROL NUMBER: 48-06-01-06-0-004-018

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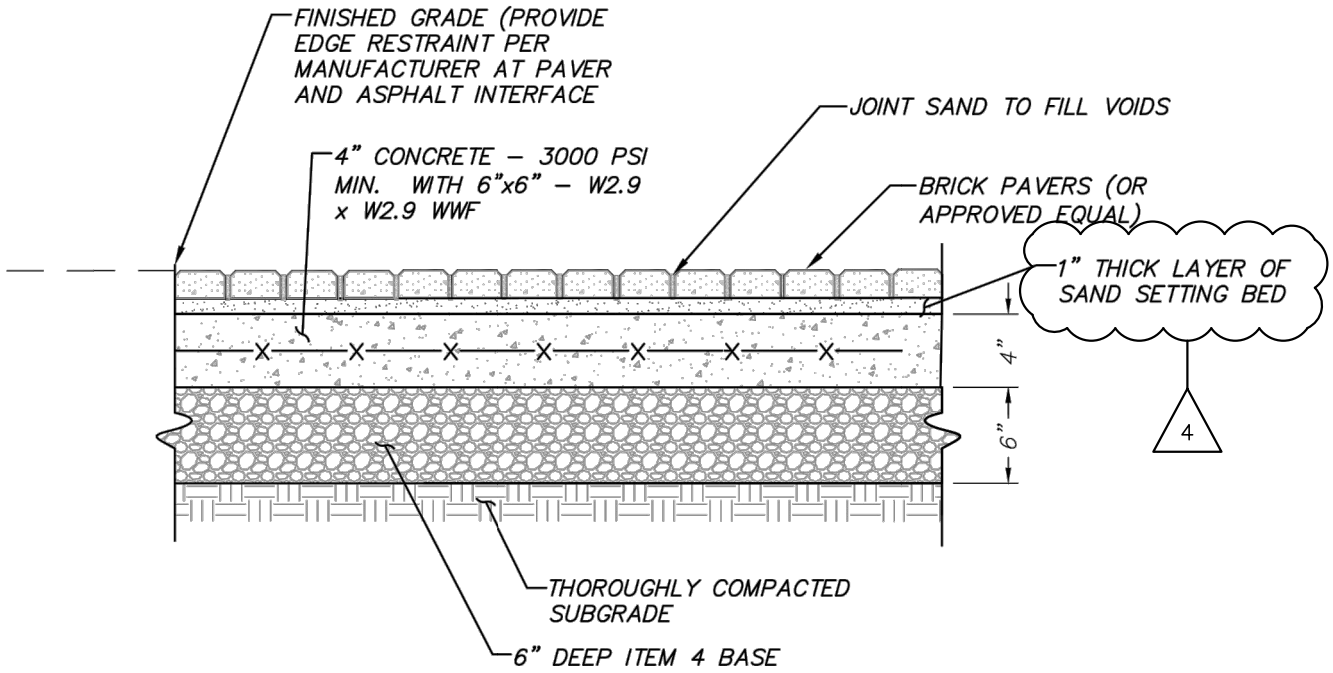
BREWSTER CENTRAL SCHOOL DISTRICT
BREWSTER HIGH SCHOOL
SECURITY VESTIBULE, SYNTHETIC FIELD & RELATED WORK
50 FOGGINTOWN ROAD BREWSTER, NY 10509

05-07-2024	BID ADDENDUM #4
DATE	ISSUED TO

DRAWING TITLE:
LAYOUT AND LANDSCAPE PLAN
{REF: C304}

SCALE:	AS NOTED
FILE NO. 23505.01	DRAWING NO. SK-11



NOTES:

1. PAVERS TO BE SALVAGED MEMORIAL BRICKS SET IN RUNNING BOND PATTERN.
3. NEW BRICK SURROUND COLOR TO MATCH SALVAGED BRICKS.
2. JOINT SAND COLOR TO BE COORDINATED WITH BRICK COLOR.
3. UTILIZE UNILOCK EDGE RESTRAINT BETWEEN THE BRICK BAND AND ASPHALT INTERFACE AS PER MANUFACTURER'S STANDARDS.

BRICK PAVERS DETAIL

(N.T.S.)

4

S.E.D. CONTROL NUMBER: 48-06-01-06-0-004-018

05-07-2024	BID ADDENDUM #4
DATE	ISSUED TO
SCALE:	AS NOTED
FILE NO.	23505.01
DRAWING NO.	SK-12

JOB NAME:
BREWSTER CENTRAL SCHOOL DISTRICT
BREWSTER HIGH SCHOOL
SECURITY VESTIBULE, SYNTHETIC FIELD & RELATED WORK
50 FOGGINTOWN ROAD BREWSTER, NY 10509

DRAWING TITLE:
SITE DETAIL
{REF: C701}

NOTE:
ALL INFORMATION ON ORIGINAL CONTRACT DOCUMENT SHALL PERTAIN UNLESS SPECIFICALLY CHANGED BY THIS DRAWING.

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BRICK PAVERS

PART 1 - GENERAL

1.01 SUMMARY

A. This Section includes the following:

1. Brick pavers.
2. Bedding and joint sand.

B. Related Sections include the following:

1. Section “Cast-In-Place Concrete” for concrete materials and placement
2. Section "Earth Moving" for excavation and compacted subgrade

1.02 SUBMITTALS

A. Product Data: For the following in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.

A. Manufacturer’s drawings and details: Indicate perimeter conditions, relationship to adjoining materials and assemblies, brick paver layout and color and installation [and setting] details.
B. Sieve analysis per ASTM C136 for grading of bedding and joint sand.
C. Brick pavers:
1. Four representative full-size samples of each brick paver type, thickness, color, finish that indicate the range of color variation and texture expected in the finished installation. Color selected by Architect, Landscape Architect, and Owner from manufacturer’s available colors.
2. Accepted samples become the standard of acceptance for the work.
3. Test results from an independent testing laboratory for compliance of paving brick requirements to ASTM C936.
4. Manufacturer's catalog product data, installation instructions, and safety data sheets for the safe handling of the specified materials and products.

1.03 QUALITY ASSURANCE

A. Source Limitations: Obtain each type of brick paver and setting material from one source with resources to provide materials and products of consistent quality in appearance and physical properties.

B. Mockups: Build mockups min. 4' x 4' to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.

1. Mockup shall contain all colors and types of brick pavers to be provided in the Work.

2. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Store pavers on elevated platforms in a dry location. If bricks are not stored in an enclosed location, cover tops and sides of stacks with waterproof sheeting, securely tied.

B. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materials that have become damp.

C. Store aggregates where grading and other required characteristics can be maintained and contamination avoided.

D. Store cement and other bituminous materials in tightly closed containers.

1.05 PROJECT CONDITIONS

A. Cold-Weather Protection: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen subgrade or setting beds. Remove and replace brick paver work damaged by frost or freezing.

1.06 EXTRA MATERIALS

A. Provide 20 extra brick pavers of each type, size and color included in the work; deliver to Owner's storage area as directed.

PART 2 - PRODUCTS

A.01 BRICK PAVERS

A. Brick Pavers: To match existing brick pavers at High School entranceway to be approved by Project Architect, Landscape Architect, and Owner.
B. Brick Band Border: To match existing brick pavers at High School entranceway to be approved by Project Architect, Landscape Architect, and Owner.
C. Laying Pattern: to match existing pavers on site.
D. Brick Size: to match existing pavers on site.

2.02 ACCESSORIES

A. Edge Restraints: Comply with manufacturer's specifications.

2.03 BEDDING AND JOINT SAND

A. Provide bedding and joint sand as follows:
1. Washed, clean, non-plastic, free from deleterious or foreign matter, symmetrically shaped, natural or manufactured from crushed rock.
2. Do not use limestone screenings, stone dust, or sand for the bedding sand material that do not conform to the grading requirements of ASTM C33.
3. Do not use mason sand or sand conforming to ASTM C144 for the bedding sand.
4. Where concrete pavers are subject to vehicular traffic, utilize sands that are as hard as practically available.
5. Sieve according to ASTM C136.
6. Bedding Sand Material Requirements: Conform to the grading requirements of ASTM

C33 with modifications as shown in Table 1.

Table 1
ASTM C33 Grading Requirements for Bedding Sand

Sieve Size	Percent Passing
3/8 in. (9.5 mm)	100
No. 4 (4.75 mm)	95 to 100
No. 8 (2.36 mm)	80 to 100
No. 16 (1.18 mm)	50 to 85
No. 30 (0.600 mm)	25 to 60
No. 50 (0.300 mm)	5 to 30
No. 100 (0.150 mm)	0 to 10
No. 200 (0.075 mm)	0 to 1

1. Joint Sand Material Requirements: Conform to the grading requirements of ASTM C144 as shown with modifications in Table 2 below:

Table 2
ASTM C144 Grading for Joint Sand

	Natural Sand	Manufactured Sand
Sieve Size	Percent Passing	Percent Passing
No. 4 (4.75 mm)	100	100
No. 8 (2.36 mm)	95 to 100	95 to 100
No. 16 (1.18 mm)	70 to 100	70 to 100
No. 30 (0.600 mm)	40 to 75	40 to 100
No. 50 (0.300 mm)	10 to 35	20 to 40
No. 100 (0.150 mm)	2 to 15	10 to 25
No. 200 (0.075 mm)	0 to 5	0 to 5

2.04 CONCRETE BASE

A. See Section 32 13 13 Cast In Place Concrete for concrete base specifications.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine areas indicated to receive paving, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance.

1. Proceed with installation only after unsatisfactory conditions have been corrected

3.02 PREPARATION

A. Sweep concrete substrates to remove dirt, dust, debris, and loose particles.

3.03 INSTALLATION, GENERAL

A. Spread bedding sand evenly over the base course and screed rails, using the rails and/or edge restraints to produce a nominal 1 in. (25 mm) thickness, allowing for specified variation in the base surface.
   1. Do not disturb screeded sand.
   2. Screeded area shall not substantially exceed that which is covered by pavers in one day.
   3. Do not use bedding sand to fill depressions in the base surface.

B. Lay pavers in pattern(s) shown on drawings. Place bricks hand tight without using hammers. Make horizontal adjustments to placement of laid pavers with rubber hammers as required.

C. Provide joints between pavers between [1/16 in. and 3/16 in. (2 and 5 mm)] wide. No more than 5% of the joints shall exceed [1/4 in. (6 mm)] wide to achieve straight bond lines.

D. Joint (bond) lines shall not deviate more than ±1/2 in. (±15 mm) over 50 ft. (15 m) from taut string lines.

E. Fill gaps at the edges of the paved area with cut pavers or edge bricks.

F. Cut pavers to be placed along the edge with a [double blade paver splitter or] masonry saw.

G. Provide edge restraints as indicated in detail. Install edge restraints before placing brick pavers.

H. Keep skid steer and forklift equipment off newly laid pavers that have not received initial compaction and joint sand.

I. Use a low-amplitude plate compactor having a minimum of 5,000 lbf (22 kN) at a frequency of 75 to 100 Hz to vibrate the pavers into the sand. Remove any cracked or damaged pavers and replace with new bricks.

J. Simultaneously spread, sweep and compact dry joint sand into joints continuously until full. This will require at least 4 passes with a plate compactor. Do not compact within 6 ft (2 m) of unrestrained edges of paving bricks.

K. All work more than 6 ft. (2 m) of the laying face shall be left fully compacted with sand-filled joints at the end of each day or compacted upon acceptance of the work. Cover the laying face or any incomplete areas with plastic sheets overnight if not closed with cut and compacted pavers with joint sand to prevent exposed bedding sand from becoming saturated from rainfall.

L. Remove excess sand from surface when installation is complete.

N. Surface shall be broom clean after removal of excess joint sand.

3.05 FIELD QUALITY CONTROL

A. The final surface tolerance from grade elevations shall not deviate more than ±3/8 in. (±10 mm) under a 10 ft (3 m) straightedge.

B. Check final surface elevations for conformance to drawings.

C. The surface elevation of pavers shall be 1/8 in. to 1/4 in. (3 to 6 mm) above adjacent drainage inlets, concrete collars or channels.

D. Lippage: No greater than 1/8 in. (3 mm) difference in height between adjacent pavers.

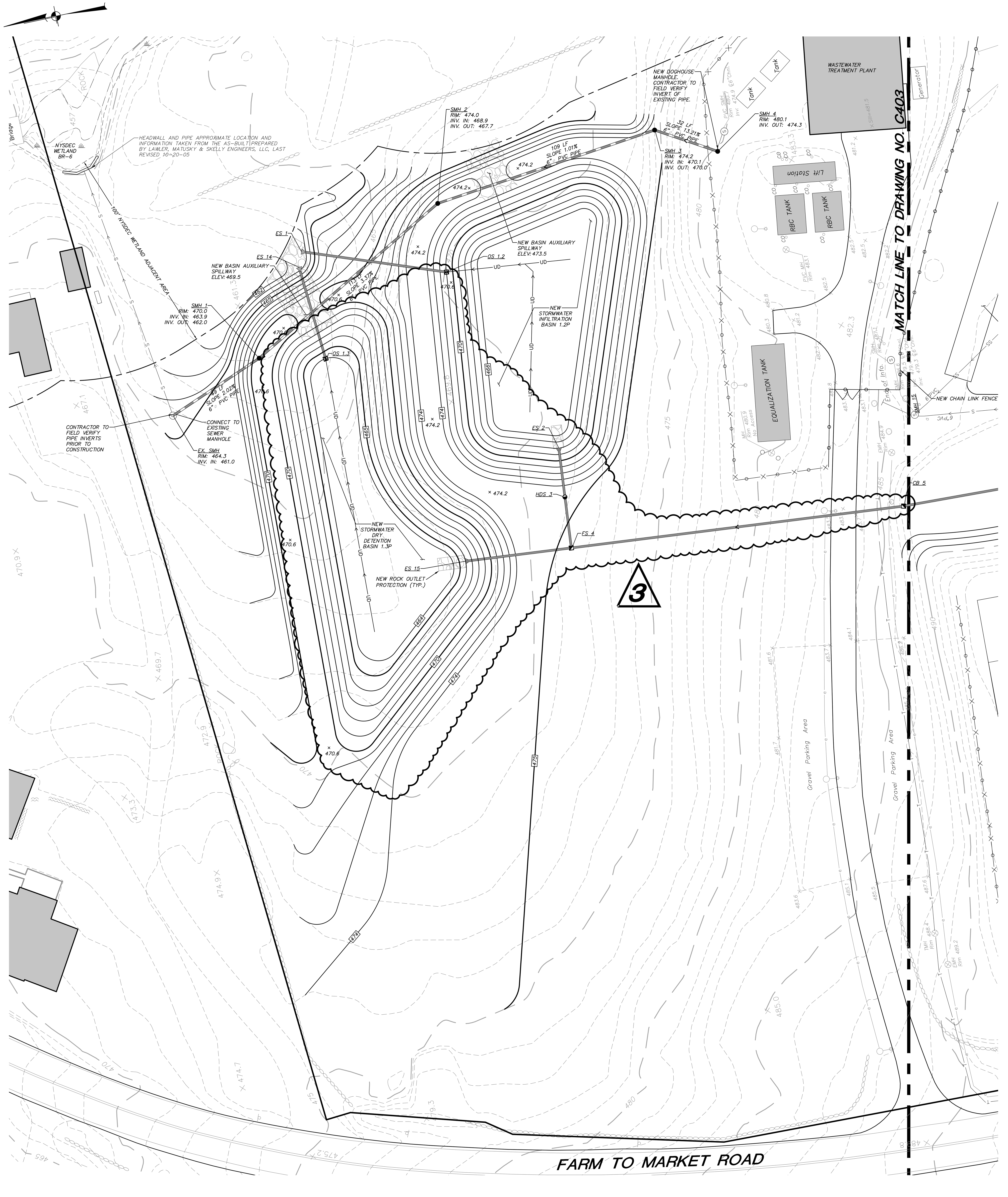
3.06 REPAIRING, POINTING, AND CLEANING

A. After work in this section is complete, the General Contractor shall be responsible for protecting work from damage due to subsequent construction activity on the site.
Remove and replace brick pavers that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining bricks. Provide new bricks to match adjoining bricks and install in same manner as original bricks, with same joint treatment and with no evidence of replacement.

END OF SECTION 321413

DRAINAGE TABLE

Structure	RIM	INVERT ELEVATION	PIPE	LENGTH	SLOPE
ACO CB E	499.5	INV. OUT = 497.60 TO DI 11A	6" HDPE	39 L.F.	4.4%
ACO CB N	499.5	INV. OUT = 497.60 TO DMH 16	6" HDPE	54 L.F.	4.3%
ACO CB NE	499.5	INV. OUT = 497.60 TO DMH 9	6" HDPE	31 L.F.	4.5%
ACO CB NW	499.5	INV. OUT = 497.60 TO DMH 18	6" HDPE	36 L.F.	4.4%
ACO CB S	499.5	INV. IN = 497.60 FROM SC DRAIN INV. OUT = 497.60 TO DMH 22	4" HDPE 6" HDPE	14 L.F. 31 L.F.	2.2% 4.5%
ACO CB SE	499.5	INV. OUT = 497.60 TO DI 11B	6" HDPE	39 L.F.	4.4%
ACO CB SW	499.5	INV. OUT = 497.60 TO DMH 19	6" HDPE	36 L.F.	4.4%
ACO CB W (6")	499.5	INV. OUT = 497.60 TO DMH 18A	6" HDPE	36 L.F.	4.4%
CB 5	486.4	INV. IN = 475.20 FROM CB 6 INV. OUT = 475.20 TO FS 4	30" HDPE 30" HDPE	226 L.F. 160 L.F.	1.3% 2.1%
CB 6	490.8	INV. IN = 478.10 FROM DI 7 INV. OUT = 478.10 TO CB 5	30" HDPE 30" HDPE	197 L.F. 226 L.F.	1.1% 1.3%
CB 8	493.4	INV. IN = 482.10 FROM F TO DI 8B INV. IN = 487.50 FROM DMH 9 INV. OUT = 481.10 TO DI 7	18" HDPE 30" HDPE 30" HDPE	46 L.F. 124 L.F. 88 L.F.	1.3% 1.5% 1.0%
CB 10	498.9	INV. IN = 491.30 FROM CB 11 INV. OUT = 490.40 TO DMH 9	24" HDPE 24" HDPE	121 L.F. 52 L.F.	1.1% 1.2%
CB 11	504.6	INV. IN = 493.10 FROM DI 11A INV. IN = 499.60 FROM CB 12 INV. OUT = 492.60 TO CB 10	18" HDPE 12" HDPE 24" HDPE	51 L.F. 210 L.F. 121 L.F.	1.2% 1.0% 1.1%
CB 12	506.1	INV. IN = 501.70 FROM CB 13 INV. OUT = 501.70 TO CB 11	12" HDPE 12" HDPE	67 L.F. 210 L.F.	1.0% 1.0%
CB 13	505.9	INV. OUT = 502.40 TO CB 12	12" HDPE	67 L.F.	1.0%
CB 23	499.4	INV. OUT = 496.50 TO DMH 22	12" HDPE	89 L.F.	1.0%
DI 7	491.8	INV. IN = 480.20 FROM CB 8 INV. IN = 484.90 FROM DMH 16 INV. OUT = 480.20 TO CB 6	30" HDPE 24" HDPE 30" HDPE	88 L.F. 125 L.F. 197 L.F.	1.0% 1.0% 1.1%
DI 11A	499.0	INV. IN = 494.00 FROM DI 11B INV. IN = 495.90 FROM ACO CB E INV. OUT = 493.70 TO CB 11	15" HDPE 6" HDPE 18" HDPE	142 L.F. 39 L.F. 51 L.F.	1.1% 4.4% 1.2%
DI 11B	499.0	INV. IN = 496.10 FROM UD INV. IN = 495.90 FROM ACO CB SE INV. IN = 495.50 FROM T&F CP SE INV. OUT = 495.50 TO DI 11A	6" HDPE 6" HDPE 15" HDPE 15" HDPE	82 L.F. 39 L.F. 43 L.F. 142 L.F.	1.7% 4.4% 1.2% 1.1%
DI 16A	499.1	INV. IN = 496.30 FROM UD PV INV. IN = 496.30 FROM UD LJ INV. OUT = 496.30 TO DMH 16	6" HDPE 6" HDPE 12" HDPE	128 L.F. 65 L.F. 26 L.F.	1.0% 2.0% 1.6%
DI 24	504.3	INV. OUT = 501.50 TO SV EX DI	12" HDPE	14 L.F.	1.4%
DMH 9	499.8	INV. IN = 494.80 FROM T&F CP NE INV. IN = 496.20 FROM ACO CB NE INV. IN = 489.80 FROM CB 10 INV. OUT = 489.30 TO CB 8	15" HDPE 6" HDPE 24" HDPE 30" HDPE	34 L.F. 31 L.F. 52 L.F. 124 L.F.	3.5% 4.5% 1.2% 1.5%
DMH 16	499.4	INV. IN = 486.20 FROM DMH 17 INV. IN = 495.30 FROM ACO CB N INV. IN = 495.90 FROM DI 16A INV. OUT = 486.20 TO DI 7	24" HDPE 6" HDPE 12" HDPE 24" HDPE	159 L.F. 54 L.F. 26 L.F. 125 L.F.	1.0% 4.3% 1.6% 1.0%
DMH 17	500.0	INV. IN = 487.80 FROM DMH 18 INV. OUT = 487.80 TO DMH 16	24" HDPE 24" HDPE	114 L.F. 159 L.F.	1.1% 1.0%
DMH 18	499.3	INV. IN = 489.00 FROM DMH 18A INV. IN = 496.00 FROM ACO CB NW INV. IN = 494.50 FROM T&F CP NW INV. OUT = 489.00 TO DMH 17	24" HDPE 6" HDPE 15" HDPE 24" HDPE	143 L.F. 36 L.F. 40 L.F. 114 L.F.	1.1% 4.4% 3.8% 1.1%
DMH 18A	499.3	INV. IN = 490.50 FROM DMH 19 INV. IN = 496.00 FROM ACO CB W (6") INV. OUT = 490.50 TO DMH 18	24" HDPE 6" HDPE 24" HDPE	142 L.F. 36 L.F. 143 L.F.	1.1% 4.4% 1.1%
DMH 19	499.3	INV. IN = 492.70 FROM DMH 20 INV. IN = 496.00 FROM ACO CB SW INV. IN = 494.50 FROM T&F CP SW INV. OUT = 492.00 TO DMH 18A	15" HDPE 6" HDPE 15" HDPE 24" HDPE	89 L.F. 36 L.F. 40 L.F. 142 L.F.	1.0% 4.4% 3.8% 1.1%
DMH 20	498.3	INV. IN = 493.60 FROM DMH 21 INV. OUT = 493.60 TO DMH 19	15" HDPE 15" HDPE	106 L.F. 89 L.F.	1.0% 1.0%
DMH 21	498.6	INV. IN = 494.70 FROM DMH 22 INV. OUT = 494.70 TO DMH 20	15" HDPE 15" HDPE	50 L.F. 106 L.F.	1.2% 1.0%
DMH 22	499.7	INV. IN = 495.60 FROM CB 23 INV. IN = 496.20 FROM ACO CB S INV. OUT = 495.30 TO DMH 21	12" HDPE 6" HDPE 15" HDPE	89 L.F. 31 L.F. 50 L.F.	1.0% 4.5% 1.2%
ES 1		INV. IN = 465.00 FROM OS 1.2	24" HDPE	70 L.F.	2.9%
ES 2		INV. IN = 468.00 FROM HDS 3	18" HDPE	24 L.F.	8.1%
ES 14		INV. IN = 462.50 FROM OS 1.3	30" HDPE	45 L.F.	1.1%
ES 15		INV. IN = 466.00 FROM FS 4	30" HDPE	51 L.F.	9.0%
F TO DI 8B		INV. OUT = 482.70 TO CB 8	18" HDPE	46 L.F.	1.3%
FS 4	475.2	INV. IN = 471.80 FROM CB 5 INV. OUT = 471.80 TO HDS 3 INV. OUT = 470.60 TO ES 15	30" HDPE 18" HDPE 30" HDPE	160 L.F. 24 L.F. 51 L.F.	2.1% 7.8% 9.0%
HDS 3	474.4	INV. IN = 469.90 FROM FS 4 INV. OUT = 469.90 TO ES 2	18" HDPE 18" HDPE	24 L.F. 24 L.F.	7.8% 8.1%
OS 1.2	473.2	INV. OUT = 465.00 TO ES 1	24" HDPE	70 L.F.	2.9%
OS 1.3	469.6	INV. OUT = 463.00 TO ES 14	30" HDPE	45 L.F.	1.1%
SC DRAIN		INV. OUT = 497.90 TO ACO CB S	4" HDPE	14 L.F.	2.2%
SV EX DI	506.1	INV. IN = 501.30 FROM DI 24	12" HDPE	14 L.F.	1.4%
T&F CP NE		INV. OUT = 496.00 TO DMH 9	15" HDPE	34 L.F.	3.5%
T&F CP NW		INV. OUT = 496.00 TO DMH 18	15" HDPE	40 L.F.	3.8%
T&F CP SE		INV. OUT = 496.00 TO DI 11B	15" HDPE	43 L.F.	1.2%
T&F CP SW		INV. OUT = 496.00 TO DMH 19	15" HDPE	40 L.F.	3.8%
UD		INV. OUT = 497.50 TO DI 11B	6" HDPE	82 L.F.	1.7%
UD LJ		INV. OUT = 497.60 TO DI 16A	6" HDPE	65 L.F.	2.0%
UD PV		INV. OUT = 497.60 TO DI 16A	6" HDPE	128 L.F.	1.0%



GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

LEGEND

	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	EXISTING WETLAND
	EXISTING WETLAND FLAG
	EXISTING WETLAND BUFFER
	EXISTING STONE WALL
	EXISTING CHAIN LINK FENCE
	EXISTING GUIDE RAIL
	EXISTING CONCRETE CURB
	EXISTING UTILITY POLE W/ GUY AND OVERHEAD WIRE
	EXISTING SIGN
	EXISTING LIGHT POLE
	EXISTING TREELINE
	EXISTING UNDERSTORY/SHRUB LINE
500	EXISTING 5' CONTOUR
	EXISTING 1' CONTOUR
698.6 ×	EXISTING SPOT GRADE
MH	EXISTING MANHOLE (type unidentified)
	EXISTING CATCH BASIN
500	NEW 10' CONTOUR
	NEW 2' CONTOUR
×498.1 ×489.1	NEW SPOT ELEVATION
TC 485.0 ×BC 484.5	NEW TOP OF CURB & BOTTOM OF CURB ELEVATIONS
TW 105.0 ×BW 100.0	NEW TOP OF WALL & BOTTOM OF WALL ELEVATIONS
	NEW SEWER MANHOLE
	NEW DRAINAGE MANHOLE
	NEW CATCH BASIN
	NEW OUTLET STRUCTURE
	NEW END SECTION WITH RIPRAP VELOCITY DISSIPATER
	NEW DRAINAGE PIPE
	NEW SEWER MAIN
UD	NEW UNDERDAIN
UD/P	NEW PANEL DRAIN
	NEW COLLECTOR PIPE
	NEW GRASS SWALE
PTD	PITCH TO DRAIN
CO	NEW CLEAN OUT

ENGINEERING AND SURVEYING BY:
INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 Garrett Place
Carmel, NY 10512
(845) 225-9690
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INSITE PROJECT# 23149.100

FULLER D'ANGELO P.C.
ARCHITECTS PLANNERS
45 KNOLLWOOD ROAD ELMSFORD NEW YORK 10523
TEL 914.592.4444 FAX 914.592.1717
WWW.FULLERDANGELO.COM

LICENSE EXP. DATE: 07-31-2026
CERT. NO: 2438573

S.E.D. CONTROL NUMBER:
BREWSTER HIGH SCHOOL
48-06-01-06-0-004-018

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
BREWSTER HIGH SCHOOL
SECURITY VESTIBULE, SYNTHETIC FIELD & RELATED WORK
50 FOGGINTOWN ROAD BREWSTER, NY 10509

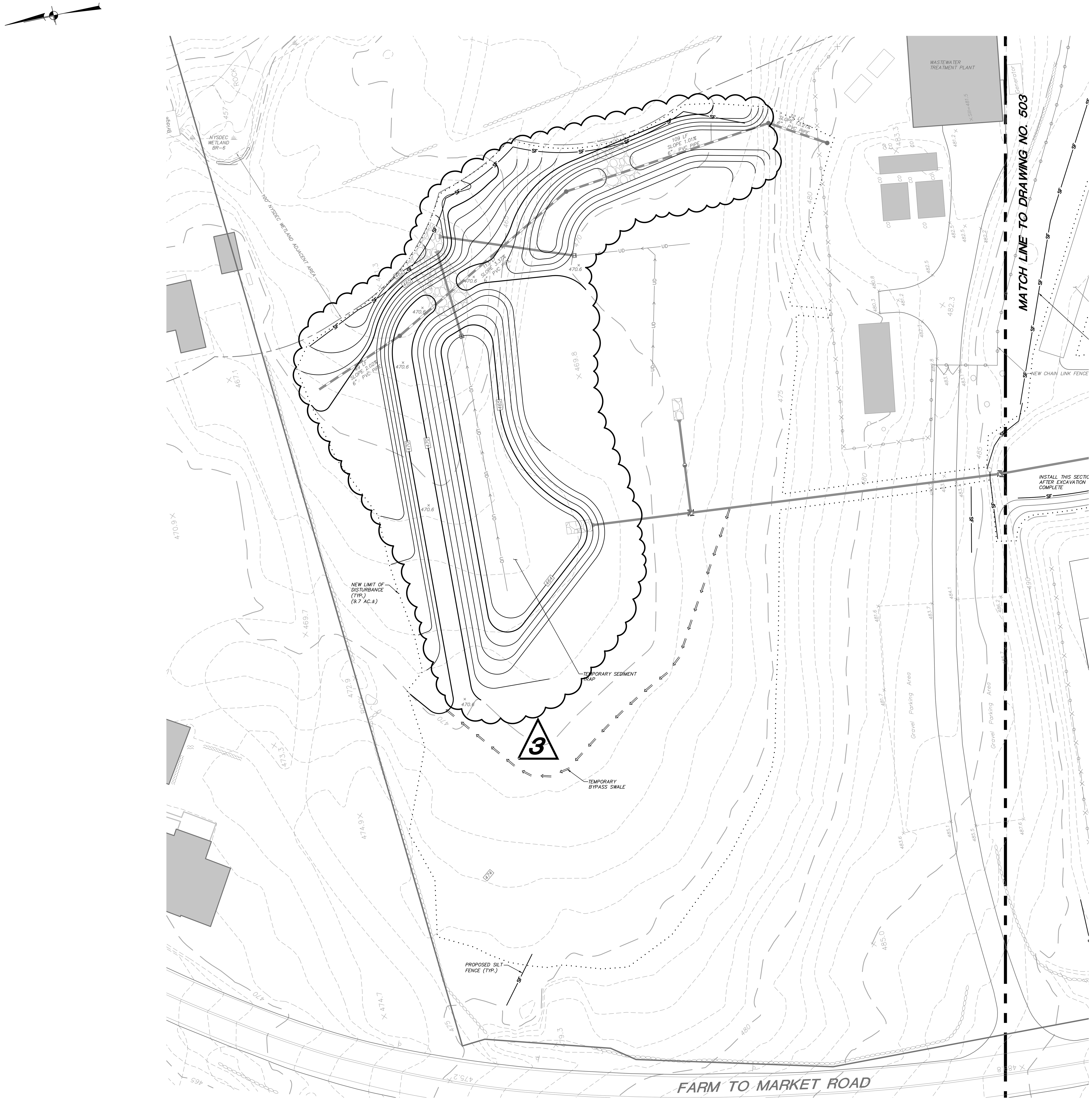
DRAWING TITLE
ATHLETIC FIELD, TRACK, AND PARKING AT BREWSTER HIGH SCHOOL
GRADING AND UTILITIES PLAN

DATE	ISSUED TO
04-23-2024	BID
10-25-2023	NYCDEP SUBMISSION
10-02-2023	S.E.D. SUBMISSION
08-01-2023	D.D. SUBMISSION
06-20-2023	S.D. SUBMISSION

SHEET SIZE 30"x42"
SCALE 1"=20'
DRAWN BY TSM
DRAWING NO. BHS C401
FILE NO. 23505.01

PLOT DATE: May 06, 2024 - 4:40pm

FILE: Z:\E\23149100 F&D Brewster CSD\CADD Package 1\BHS C401-C404.dwg



LEGEND

- EXISTING PROPERTY LINE
- EXISTING EASEMENT
- EXISTING WETLAND
- EXISTING WETLAND FLAG
- EXISTING WETLAND BUFFER
- EXISTING STONE WALL
- EXISTING CHAIN LINK FENCE
- EXISTING GUIDE RAIL
- EXISTING CONCRETE CURB
- EXISTING UTILITY POLE W/ GUY AND OVERHEAD WIRE
- EXISTING LIGHT POLE
- 500 — EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- 698.6 × — EXISTING SPOT GRADE
- MH — EXISTING MANHOLE (type unidentified)
- EXISTING CATCH BASIN
- 510 — NEW 10' CONTOUR
- NEW 2' CONTOUR
- ×409.8 — NEW SPOT ELEVATION
- TC 485.0 / BC 484.5 — NEW TOP OF CURB & BOTTOM OF CURB ELEVATIONS
- TW 105.0 / BW 100.0 — NEW TOP OF WALL & BOTTOM OF WALL ELEVATIONS
- NEW SEWER MANHOLE
- NEW DRAINAGE MANHOLE
- NEW CATCH BASIN
- NEW OUTLET STRUCTURE
- NEW END SECTION
- NEW DRAINAGE PIPE
- NEW SEWER MAIN
- UD — NEW UNDERDAIN
- UD/P — NEW PANEL DRAIN
- NEW COLLECTOR PIPE
- NEW GRASS SWALE
- PTD — PITCH TO DRAIN
- SF — NEW SILT FENCE
- CF — NEW CONSTRUCTION FENCE
- NEW STONE RIP-RAP
- NEW LIMITS OF DISTURBANCE
- TSS / SF — NEW TEMPORARY SOIL STOCKPILE
- NEW STABILIZED CONSTRUCTION ENTRANCE
- NEW DRAINAGE STRUCTURE W/ INLET PROTECTION
- TEMPORARY BYPASS SWALE

LIMIT OF DISTURBANCE:

1. The proposed limit of disturbance for Package 1 is 9.7 acres.

1-1 PACKAGE 1 – PHASE 1: (5.0 ac)

1. Schedule a pre construction meeting with NYCDEP, Design Engineer and school.
2. Install stabilized construction accesses and silt fence in accordance with the notes and details at location shown on drawing.
3. Contractor shall fell noted trees within the project limits of disturbance, but no grubbing shall take place until that phase of construction has commenced.
4. Grub trees within the limits of this phase.
5. Construct and stabilize proposed temporary sediment trap including outlet structures in accordance with the notes and details. Once sediment trap is temporarily stabilized, Package 1 Phase 2 can be constructed in parallel.
6. Install proposed piping and drainage structures with inlet protection from temporary sediment trap to proposed track and field. Begin removal of existing track.
7. Begin mass earthwork operations for the proposed track and field, within the limits of the phase. Direct all stormwater runoff from the disturbed areas to the temporary sediment trap.
8. Idle areas receive temporary stabilization within 7 days of activity ceasing in the area.
9. Install utilities within the limits of the phase.
10. Install turf field subbase and associated drainage within the limits of the phase.
11. Install track and field.
12. Upon completion of grading operations topsoil, seed, and mulch any and all remaining disturbed areas as soon as practical (within 7 days) in accordance with the sedimentation and erosion control notes.

1-2 PACKAGE 1 – PHASE 2: (4.7 ac)

1. Install erosion control measures shown on the plan in accordance with the details.
2. Grub trees within the limits of this phase.
3. Begin mass earthwork operations within the limits of the phase. Direct all stormwater runoff from the disturbed areas to the temporary sediment traps.
4. Install drainage pipes and structures with inlet protection as shown within the limits of the phase.
5. Install utilities within the limits of the phase.
6. Install gravel subbase in the proposed paved areas.
7. Install final paving with the limits of all phases.
8. Upon completion of all grading operations topsoil, seed, and mulch any and all disturbed areas as soon as practical (within 7 days) in accordance with the sedimentation and erosion control notes.
9. When stabilization of all contributing areas from package 1 is achieved, convert the temporary sediment trap to the proposed stormwater management practice per the notes and details, including removing any deposited sediment, excavate bottom of basin to final grade, and stabilize.
10. Construct the proposed infiltration basin. When installed, pipes contributing to infiltration systems shall be plugged until all contributing areas have been stabilized. Stormwater runoff to be diverted to temporary sediment trap.
11. Upon final stabilization of the infiltration basin and all contributing areas upstream of the infiltration basin remove plugs to direct stormwater to infiltration basin.
12. Remove all temporary erosion and sediment control facilities associated with Package 1 once final stabilization is achieved. Final stabilization is achieved when all soil disturbance activities have ceased and a uniform, perennial vegetation cover with a density of 80% or greater over the entire pervious surface has been established; or other equivalent stabilization measures, such as permanent landscape mulch, rip-rap or washed/crushed stone have been applied on all disturbed areas that are not covered by permanent structures, concrete or pavement.

GRAPHIC SCALE

0 10 20 40

(IN FEET)
1 inch = 20 ft.

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LICENSE EXP. DATE: 07-31-2026
CERT. NO: 2438573

S.E.D. CONTROL NUMBER:
BREWSTER HIGH SCHOOL
48-06-01-06-0-004-018

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
BREWSTER HIGH SCHOOL
SECURITY VESTIBULE, SYNTHETIC FIELD & RELATED WORK
50 FOGGINTOWN ROAD BREWSTER, NY 10509

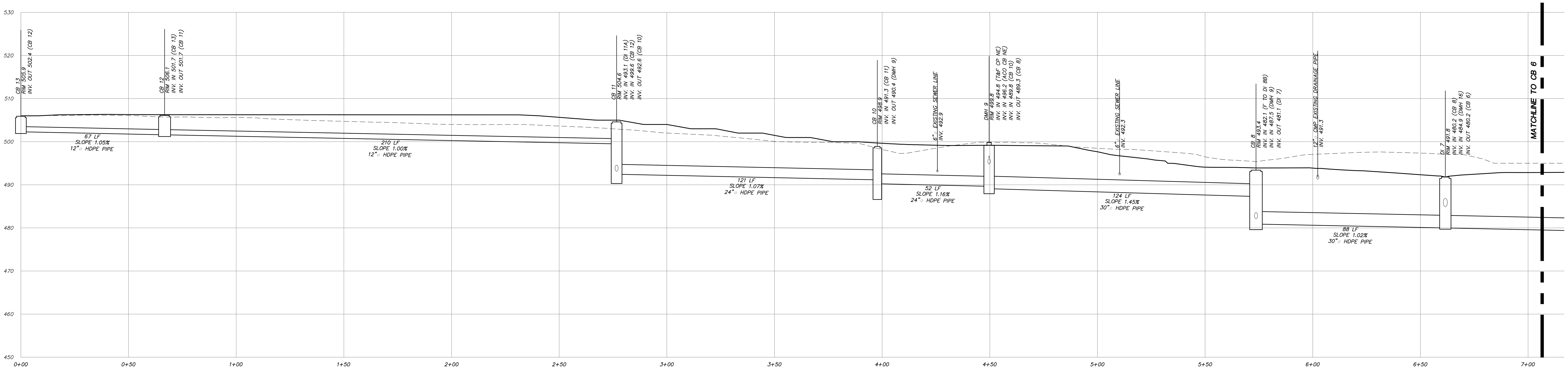
DRAWING TITLE
ATHLETIC FIELD, TRACK, AND PARKING AT BREWSTER HIGH SCHOOL
EROSION AND SEDIMENT CONTROL PLAN

DATE	ISSUED TO
04-23-2024	BID
10-25-2023	NYCDEP SUBMISSION
10-02-2023	C.D. SUBMISSION
08-01-2023	D.D. SUBMISSION
06-20-2023	S.D. SUBMISSION

SHEET SIZE 30"x42"	DRAWING NO. BHS C501
SCALE 1"=20'	
DRAWN BY TSM	FILE NO. 23505.01

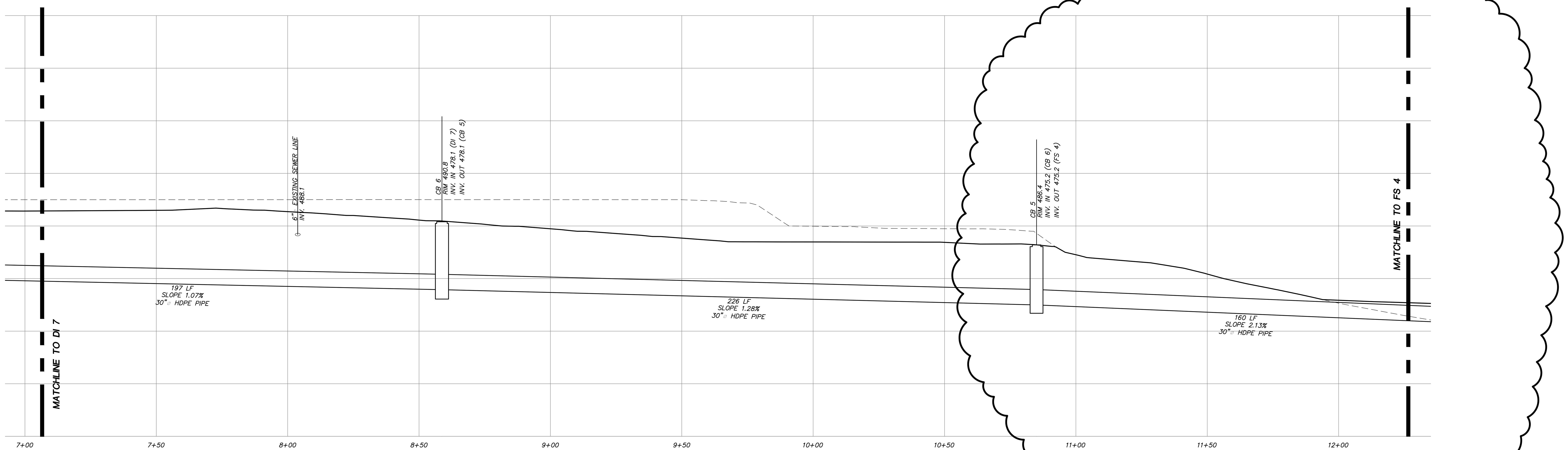
PLOT DATE: May 06, 2024 – 4:54pm

FILE: Z:\E\23149100 F&D Brewster CSD\CADD Package 1\BHS C501-C504.dwg



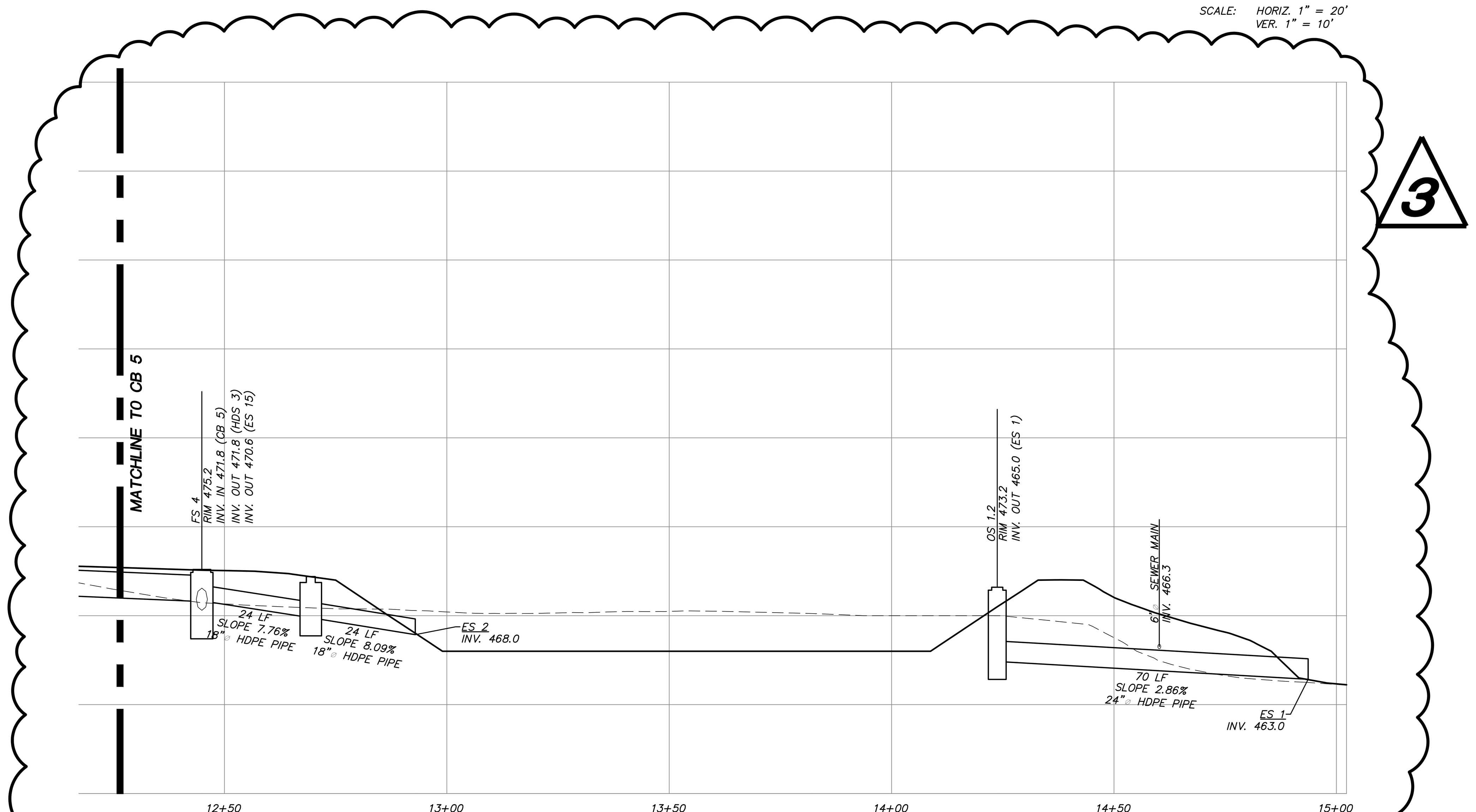
CB 13 TO ES 1

SCALE: HORIZ. 1" = 20'
VER. 1" = 10'



CB 13 TO ES 1

SCALE: HORIZ. 1" = 20'
VER. 1" = 10'



CB 13 TO ES 1

SCALE: HORIZ. 1" = 20'
VER. 1" = 10'

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LICENSE EXP. DATE: 07-31-2026
CERT. NO. 2438573

S.E.D. CONTROL NUMBER:
BREWSTER HIGH SCHOOL
48-06-01-06-0-004-018

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
BREWSTER H.S. & ADMINISTRATION BUILDING
SECURITY VESTIBULE, SYNTHETIC FIELD &
RELATED WORK
50 FOGGINTOWN ROAD BREWSTER, NY 10509

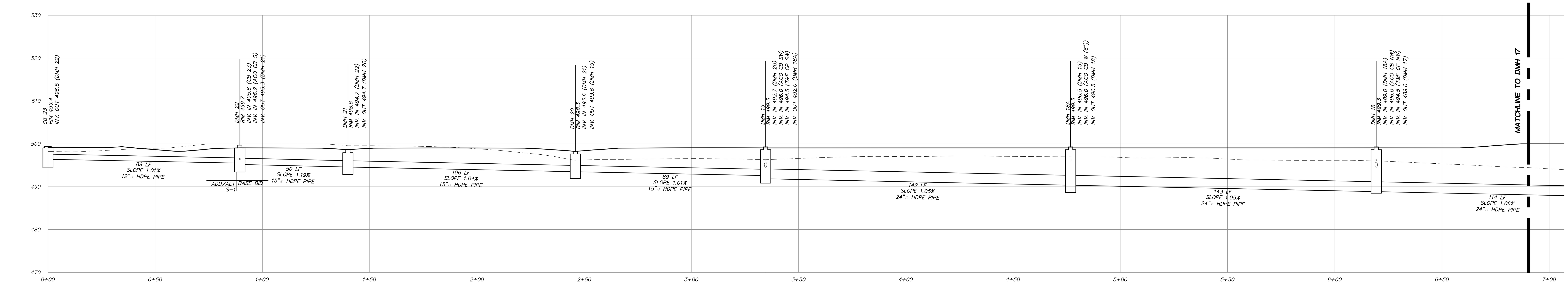
DRAWING TITLE
ATHLETIC FIELD, TRACK, AND PARKING AT
BREWSTER HIGH SCHOOL
UTILITY PROFILES

DATE	ISSUED TO
04-23-2024	BID
10-25-2023	NYCDEP SUBMISSION
10-02-2023	CD SUBMISSION
06-20-2023	SD SUBMISSION
06-13-2023	SD SUBMISSION

SHEET SIZE 30"x42"	DRAWING NO. BHS C601
SCALE AS SHOWN	
DRAWN BY IB	FILE NO. 23505.01

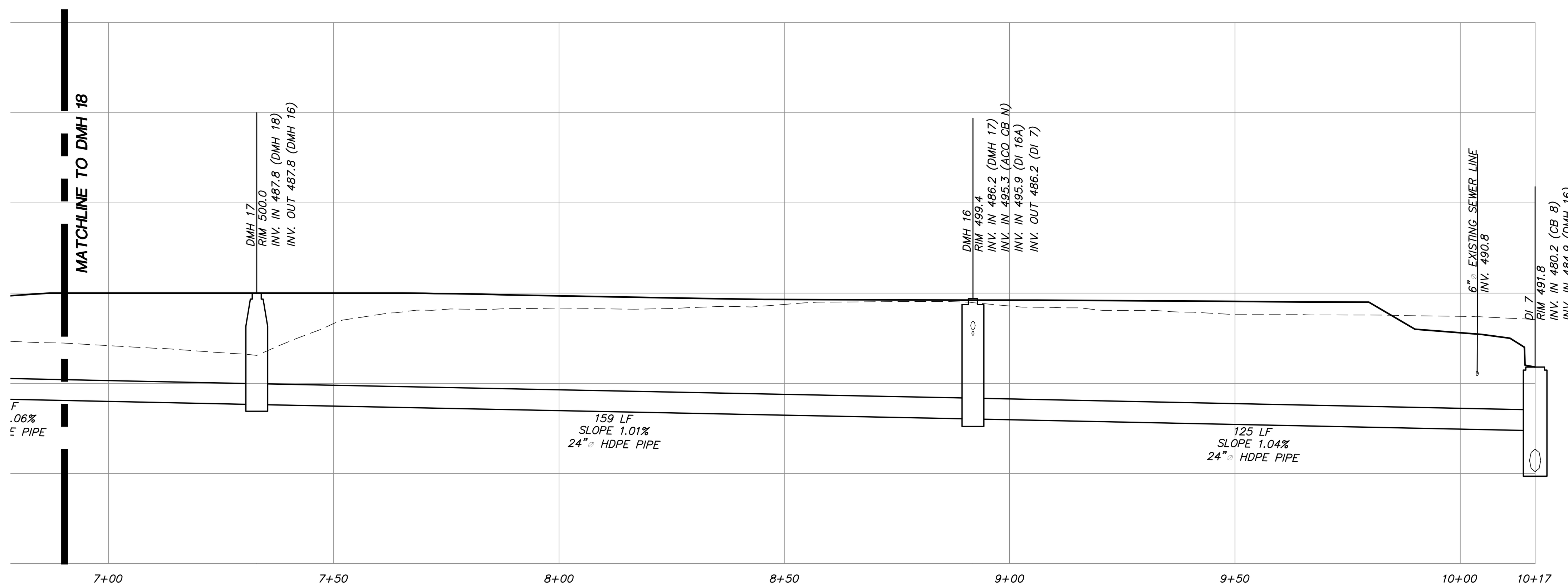
PLOT DATE: May 06, 2024 - 4:08pm

FILE: Z:\E\23149100 F&D Brewster CSD\CADD Package 1\BHS C601.dwg



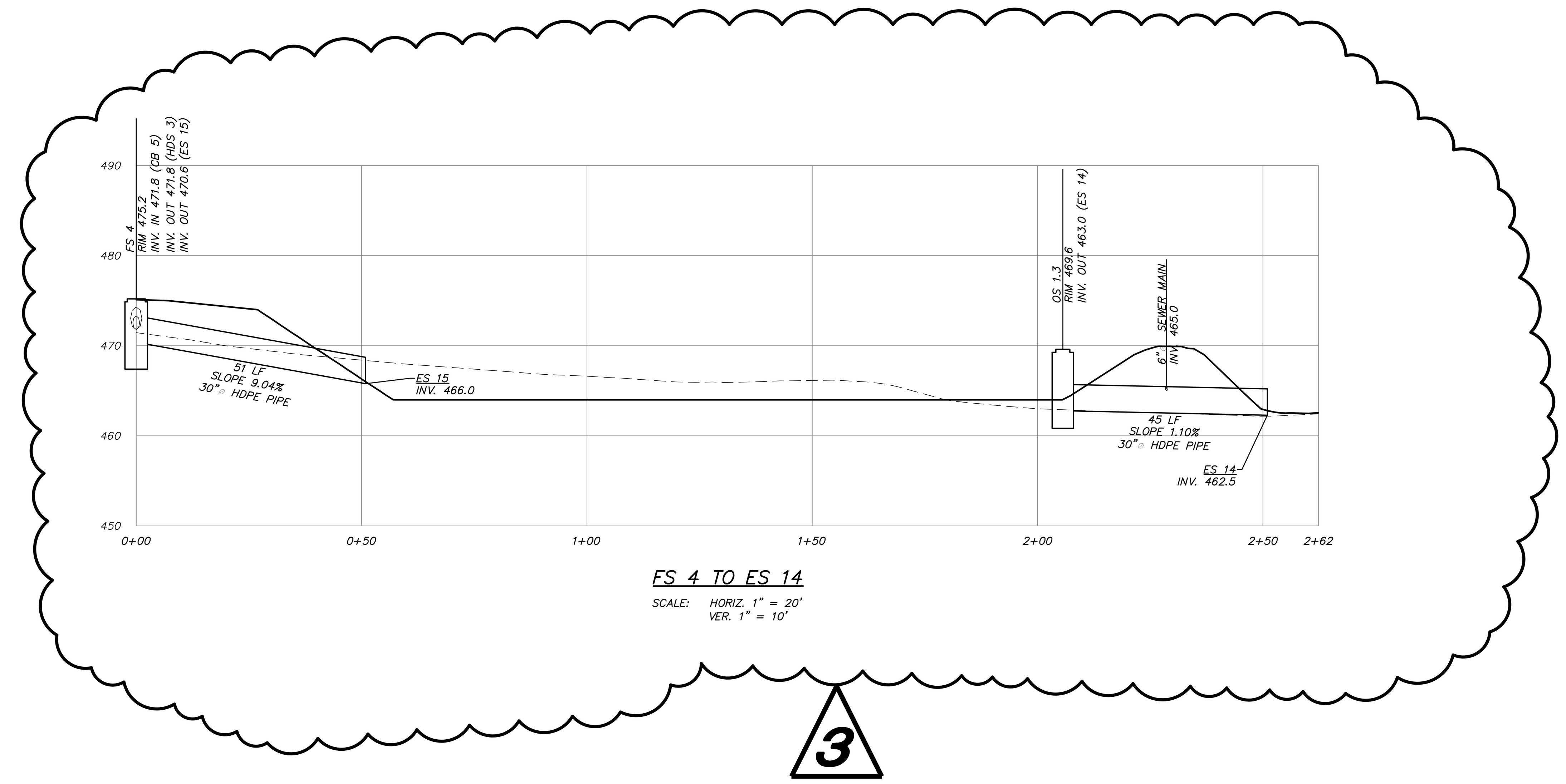
CB 23 TO DI 7

SCALE: HORIZ. 1" = 20'
VER. 1" = 10'



CB 23 TO DI 7

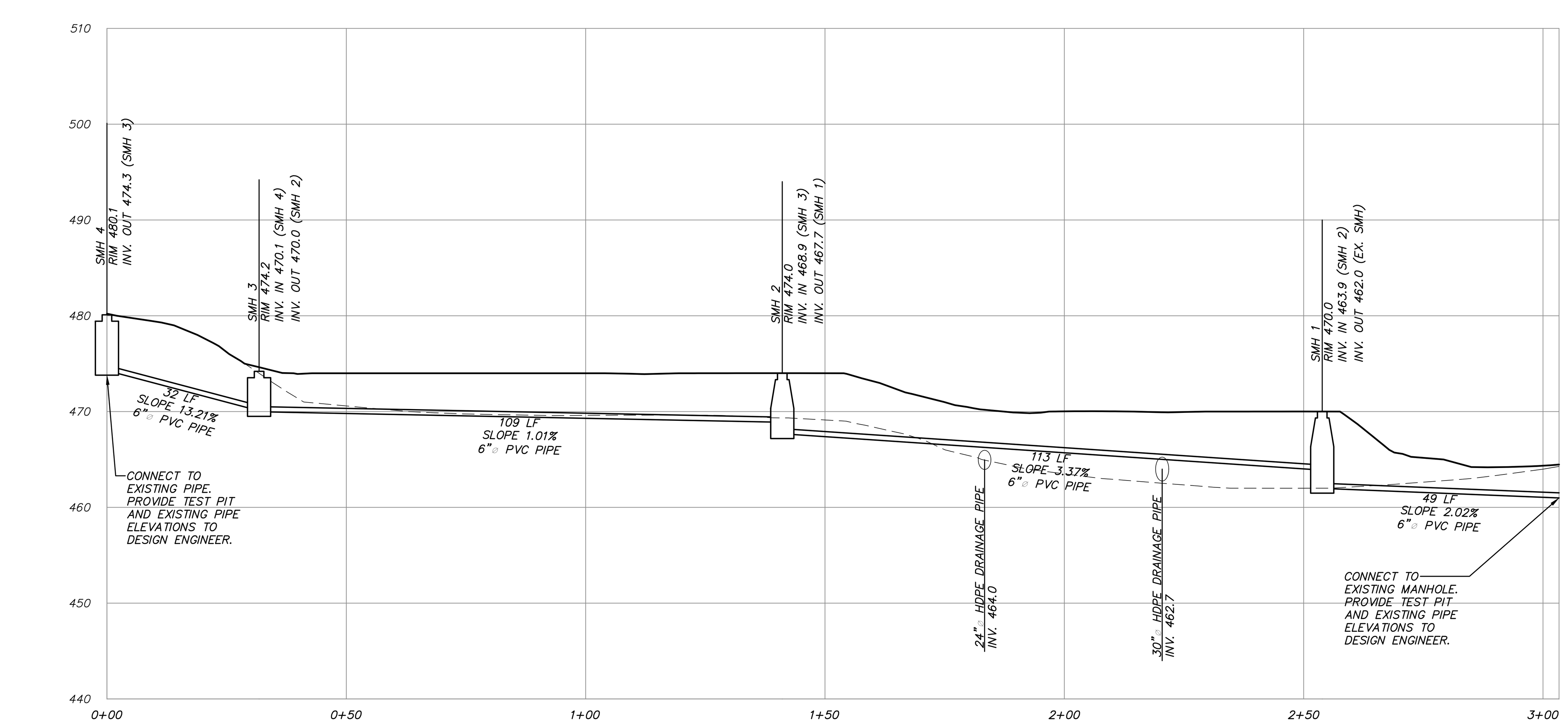
SCALE: HORIZ. 1" = 20'
VER. 1" = 10'



FS 4 TO ES 14

SCALE: HORIZ. 1" = 20'
VER. 1" = 10'

3



SMH 4 TO EX. SMH

SCALE: HORIZ. 1" = 20'
VER. 1" = 10'

ENGINEERING AND SURVEYING BY:

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INSITE PROJECT#: 23149.100

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WWW.FULLERDANGELO.COM

LICENSE EXP. DATE: 07-31-2026
CERT. NO: 2438573

S.E.D. CONTROL NUMBER:

BREWSTER HIGH SCHOOL
48-06-01-06-0-004-018

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
BREWSTER H.S. & ADMINISTRATION BUILDING
SECURITY VESTIBULE, SYNTHETIC FIELD & RELATED WORK
50 FOGGINTOWN ROAD BREWSTER, NY 10509

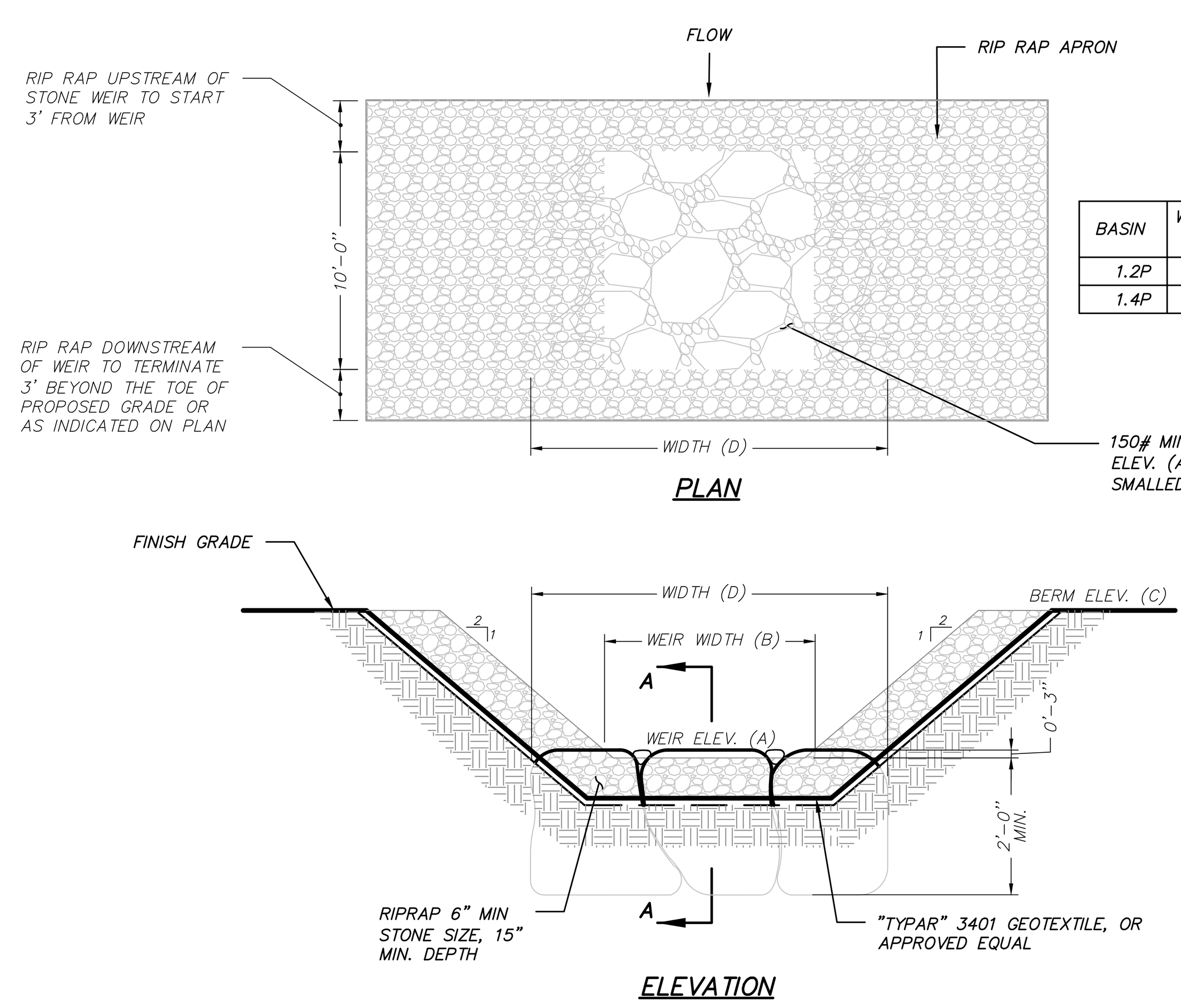
DRAWING TITLE
ATHLETIC FIELD, TRACK, AND PARKING AT BREWSTER HIGH SCHOOL
UTILITY PROFILES

DATE	ISSUED TO
04-23-2024	BID
10-25-2023	NYCDEP SUBMISSION
10-02-2023	CD SUBMISSION
06-20-2023	SD SUBMISSION
06-13-2023	SD SUBMISSION

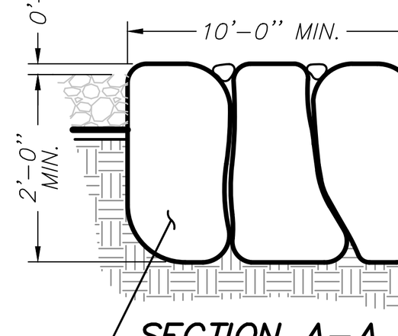
SHEET SIZE 30"x42"
SCALE AS SHOWN
DRAWN BY IB
DRAWING NO. BHS C602
FILE NO. 23505.01

PLOT DATE: May 06, 2024 - 4:56pm

FILE: Z:\E\23149100 F&D Brewster CSD\CADD Package 1\BHS C601.dwg



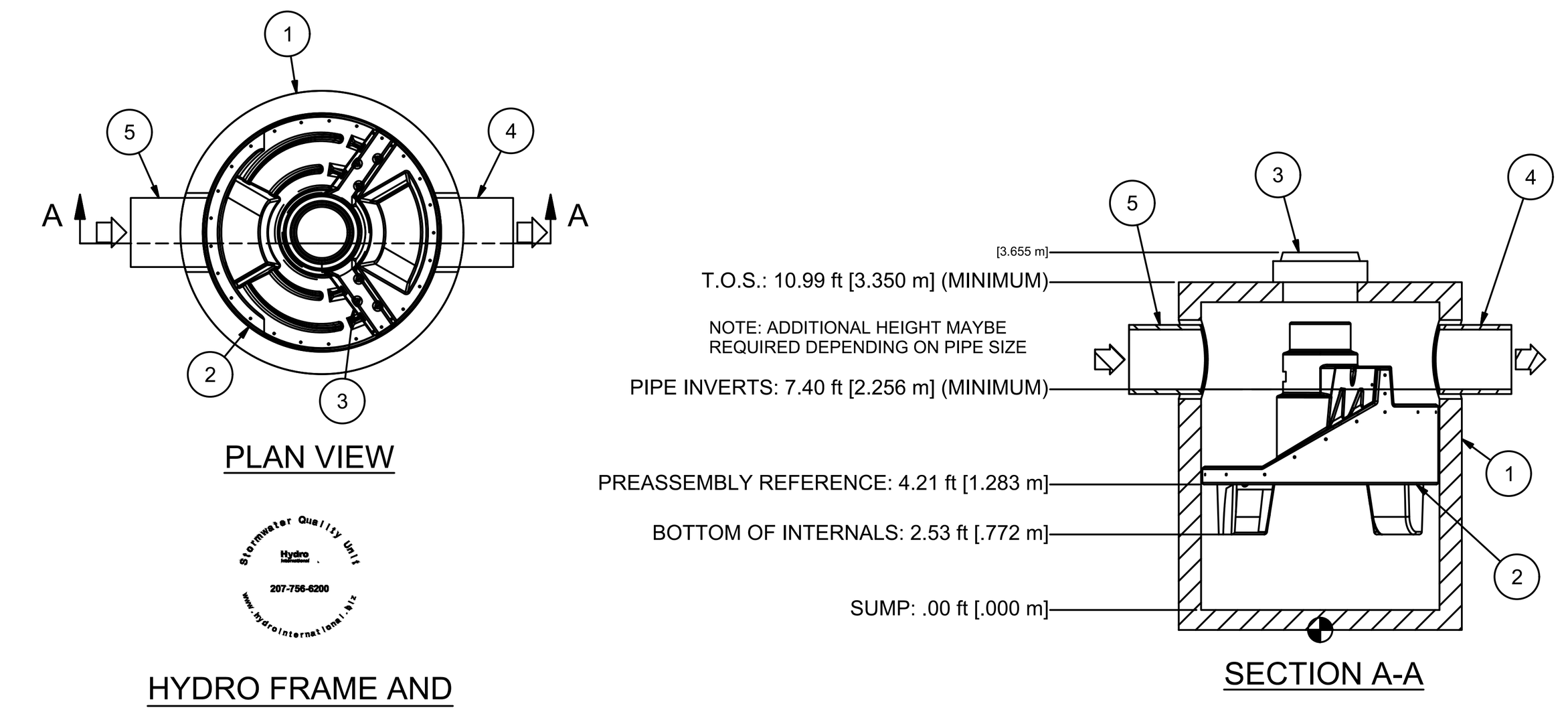
BASIN	WEIR ELEV. (A)	WEIR WIDTH (B)	BERM ELEV. (C)	WIDTH (D)
1.2P	473.0'	10'	474.0'	15'
1.4P	469.0'	10'	470.0'	15'



SECTION A-A

STONE AUXILIARY SPILLWAY DETAIL

(N.T.S.)



HYDRO FRAME AND COVER (INCLUDED)

GRADE RINGS BY OTHERS AS REQUIRED

PRODUCT SPECIFICATION:

1. PEAK HYDRAULIC FLOW: 50.0 cfs (1415 l/s)
2. MIN SEDIMENT STORAGE CAPACITY: 2.8 cu. yd. (2.1 cu. m.)
3. MAXIMUM INLET/OUTLET PIPE DIAMETERS: 48 in. (1200 mm)
4. THE TREATMENT SYSTEM SHALL USE AN INDUCED VORTEX TO SEPARATE POLLUTANTS FROM STORMWATER RUNOFF.
5. FOR MORE PRODUCT INFORMATION INCLUDING REGULATORY ACCEPTANCES, PLEASE VISIT https://hydro-int.com/en/products/first-defense

GENERAL NOTES:
1. General Arrangement drawings only. Contact Hydro International for site specific drawings.
2. The diameter of the inlet and outlet pipes may be no more than 48".
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.s)
5. Peak flow rate and minimum height limited by available cover and pipe diameter.
6. Larger sediment storage capacity may be provided with a deeper sump depth.

1. MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.

2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING FIRST DEFENSE MANHOLE.

3. CONTRACTOR TO CONFIRM RIM, PIPE INVERTS, PIPE DIA. AND PIPE ORIENTATION PRIOR TO RELEASE OF UNIT TO FABRICATION.

PARTS LIST				
ITEM	QTY	SIZE (in)	SIZE (mm)	DESCRIPTION
1	1	96	2400	I.D. PRECAST MANHOLE
2	1			INTERNAL COMPONENTS (PRE-INSTALLED)
3	1	30	750	FRAME AND COVER (ROUND)
4	1	48 (MAX)	1200 (MAX)	OUTLET PIPE (BY OTHERS)
5	1	48 (MAX)	1200 (MAX)	INLET PIPE (BY OTHERS)

FIRST DEFENSE OPTIMUM HYDRODYNAMIC SEPARATOR FDO-8 (HDS 3)

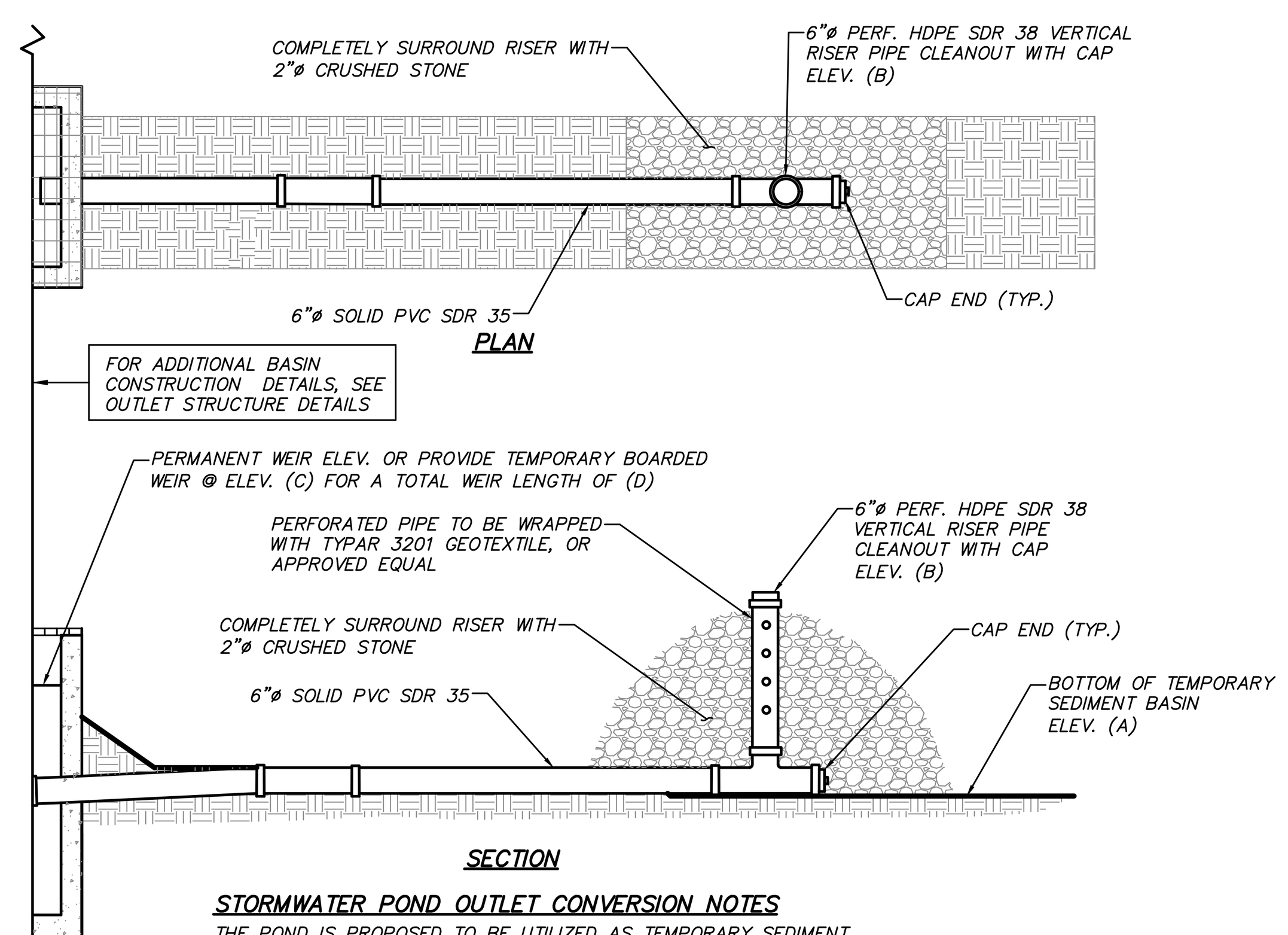
(N.T.S.)

PERMANENT STORMWATER FACILITIES MAINTENANCE SCHEDULE

PRACTICE/FACILITY	MONTHLY	AFTER MAJOR STORM EVENTS	BI-ANNUALLY	YEARLY	EVERY 5 to 10 YEARS
GRASS & RIP RAP SWALES	Ensure contributing areas clean of debris, no evidence of erosion, & mowing performed.	Inspect for erosion, soil permeability & evidence of flow going around structures.	–	Inspect & clean accumulated sediment.	–
INFILTRATION BASIN	Inspect first few months after construction for eroding soils & slumpage & repair immediately	Inspect for eroding soils on the basin berm & embankments, & sources of erosion; & stabilize and/or repair immediately.	Mow berms and exterior embankments Remove debris & litter from basins & outlet structures. Remove Sediment if accumulated greater than an 1"	–	Inspect for & remove accumulated sediment
WATER QUALITY SWALES	Inspect first few months after construction for eroding soils & slumpage & repair immediately	–	Inspect & clean Mow & remove debris & litter. Revegetate as needed.	–	Inspect for & remove accumulated sediment
INFILTRATION UNITS	–	Confirm infiltrators dewater within 40 hours	Inspect & clean	Inspect outlet structures & remove accummulated sediment.	Clean isolator row per manufactures recommendations
SUBSURFACE STORMWATER COLLECTION SYSTEMS	–	–	Inspect & clean	Inspect, clean, repair and/or replace structures. Remove debris.	–
STORMWATER BASIN	Inspect first few months after construction for eroding soils & slumpage & repair immediately	Inspect orifices, inlets & outlets for clogging, eroding soils on the basin berm & embankments, & sources of erosion; & stabilize and/or repair immediately.	Mow berm and exterior embankments Remove debris & litter from basin & outlet structures	–	Inspect for & remove accumulated sediment
DEEP SUMP CATCH BASINS	–	–	Inspect for damage to frame and grate, and pipe inlets/outlets. Clean accumulated sediment in sump.	–	–
GRASS SWALES	Inspect first few months after construction for eroding soils & slumpage & repair immediately	–	Inspect & clean Mow & remove debris & litter. Revegetate as needed.	–	Inspect for & remove accumulated sediment
INFILTRATION BASINS, SEDIMENTATION BASIN, BIORETENTION AREAS	Inspect first few months after construction for eroding soils & slumpage & repair immediately	Inspect orifices, inlets & outlets for clogging, eroding soils on the basin berm & embankments, & sources of erosion; & stabilize and/or repair immediately.	Mow berms and exterior embankments Remove debris & litter from basins & outlet structures. Remove Sediment if accumulated greater than an 1"	–	Inspect for & remove accumulated sediment

Note: The party responsible for implementation of the maintenance schedule during and after construction is:

BREWSTER CENTRAL SCHOOL DISTRICT
50 FOGGINTOWN ROAD
BREWSTER, NY 10509



STORMWATER POND OUTLET CONVERSION NOTES

THE POND IS PROPOSED TO BE UTILIZED AS TEMPORARY SEDIMENT TRAP DURING CONSTRUCTION.

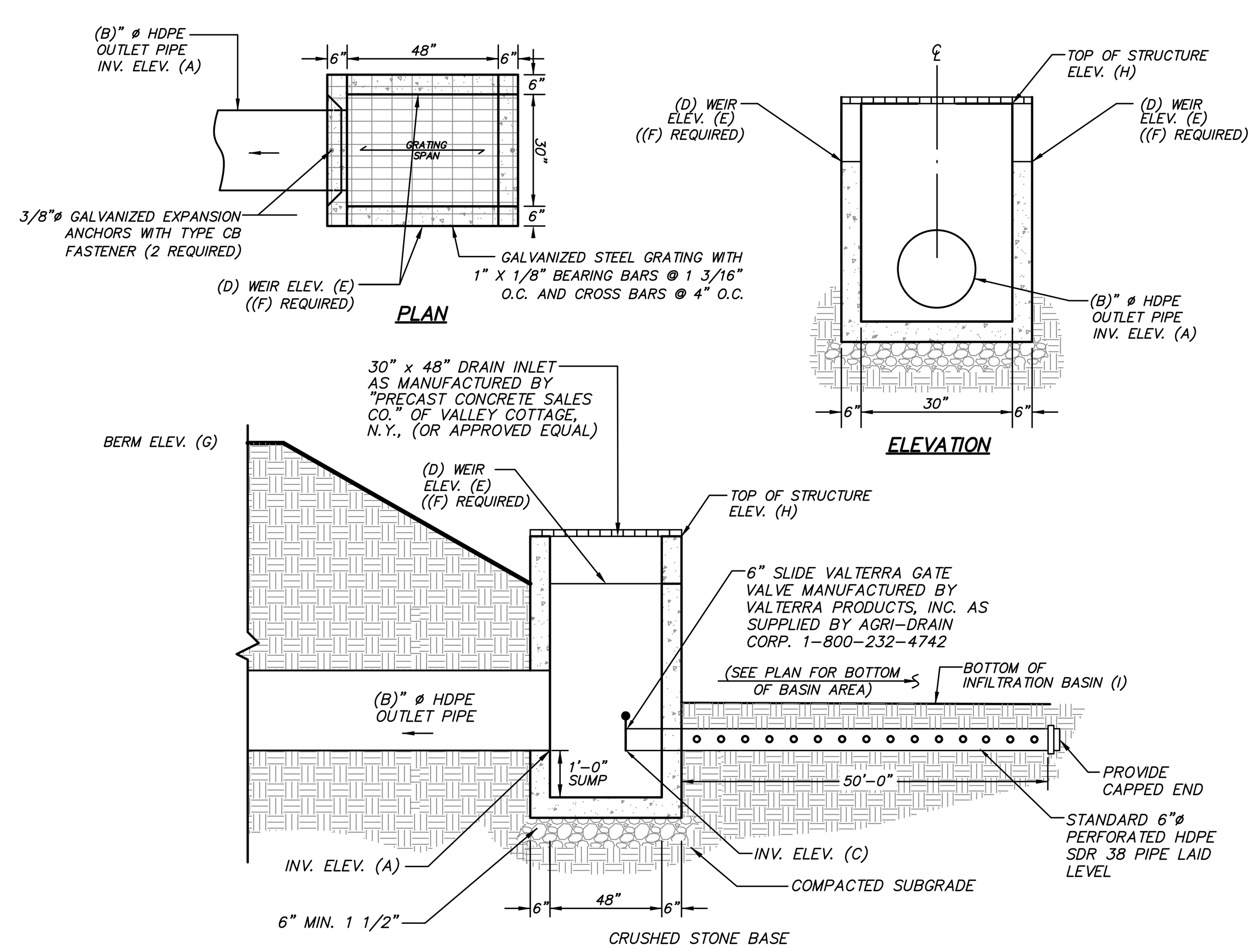
AFTER THE CONTRIBUTING AREA TO THE POND HAS BEEN PERMANENTLY STABILIZED, THE FOLLOWING SHALL BE ACCOMPLISHED:

A. CLEAN POND AND OUTLET STRUCTURE AND REMOVE 6"Ø PERFORATED VERTICAL RISER PIPE, CRUSHED STONE AND FILTER FABRIC.
B. ADD THREADED CAP WITH ORIFICE AT DISCHARGE END OF 6"Ø SOLID PVC SDR 35 PIPES PER DETAIL.
C. ESTABLISH THE FINAL VEGETATION AND ELEVATIONS IN THE POND.

STORMWATER MANAGMENT PRACTICE	CONTRIBUTING AREA (AC)	DISTURBED AREAS WITHIN CONTRIBUTING AREA (AC)	STORAGE VOLUME REQUIRED (SEDIMENT STORAGE ZONE + DEWATERING ZONE)	STORAGE VOLUME PROVIDED BELOW WEIR (CY)	BOTTOM OF TEMPORARY BASIN ELEVATION (A)	CLEANOUT ELEVATION (B)	WEIR ELEVATION (PERMANENT OR BOARDED) (C)	TEMPORARY WEIR LENGTH (D)
1.3	10.1	7.5	43,860	44,916	464.0	470.5	469.6	13'

TEMPORARY SEDIMENT BASIN OUTLET DETAIL

(N.T.S.)

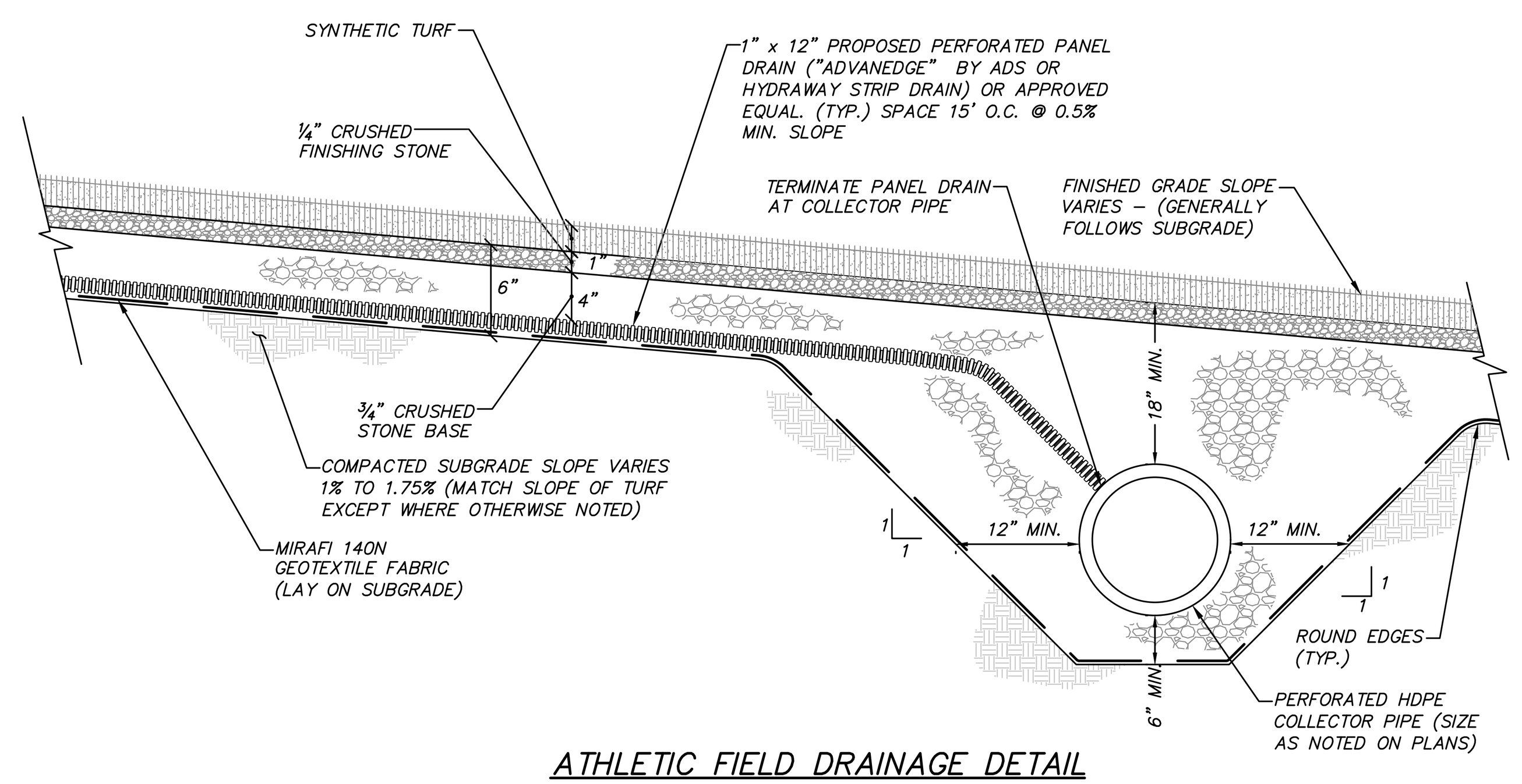


STORMWATER MANAGMENT PRACTICE	OUTLET PIPE ELEVATION (A)	OUTLET PIPE DIAMETER Ø" (B)	UNDER DRAIN INVERT ELEV. (C)	WEIR LENGTH (ft.)(each) (D)	WEIR ELEVATION (E)	NUMBER OF WEIRS REQUIRED (F)	TOP OF BERM ELEVATION (G)	TOP OF OUTLET STRUCTURE ELEVATION (H)	BOTTOM OF BASIN ELEVATION (I)
1.2P	465.0	24"	465.0	4'	472.3	1	474.2	473.2	466.0

3

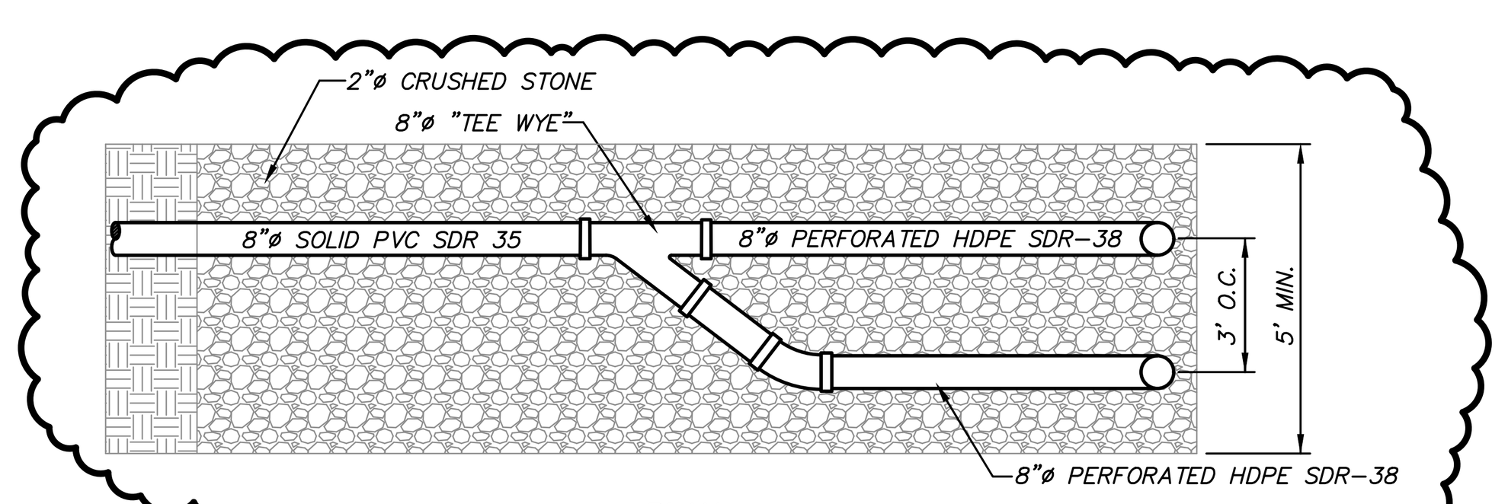
INFILTRATION BASIN OUTLET STRUCTURE DETAIL

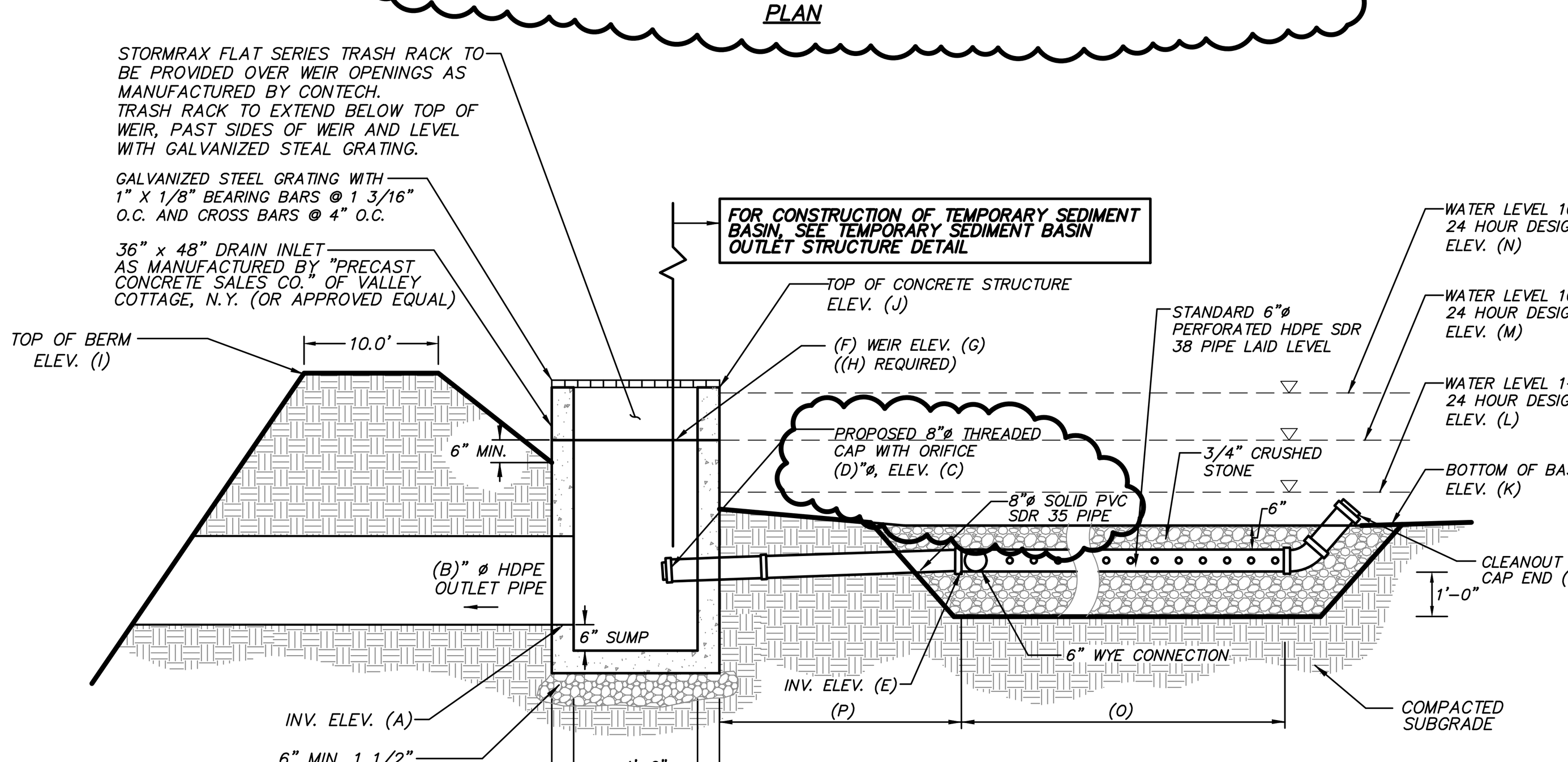
(N.T.S.)



ATHLETIC FIELD DRAINAGE DETAIL

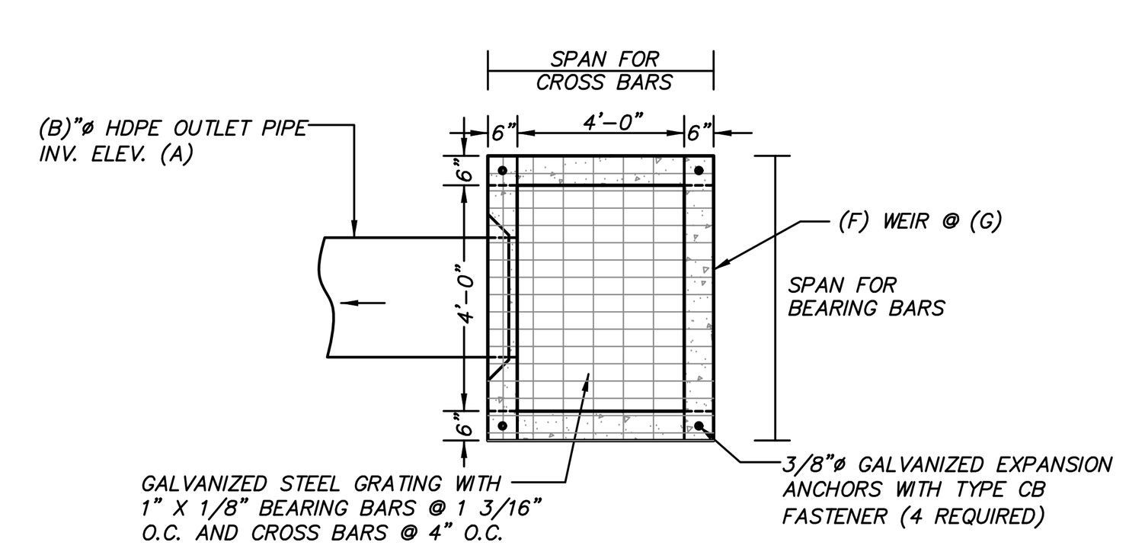
(N.T.S.)





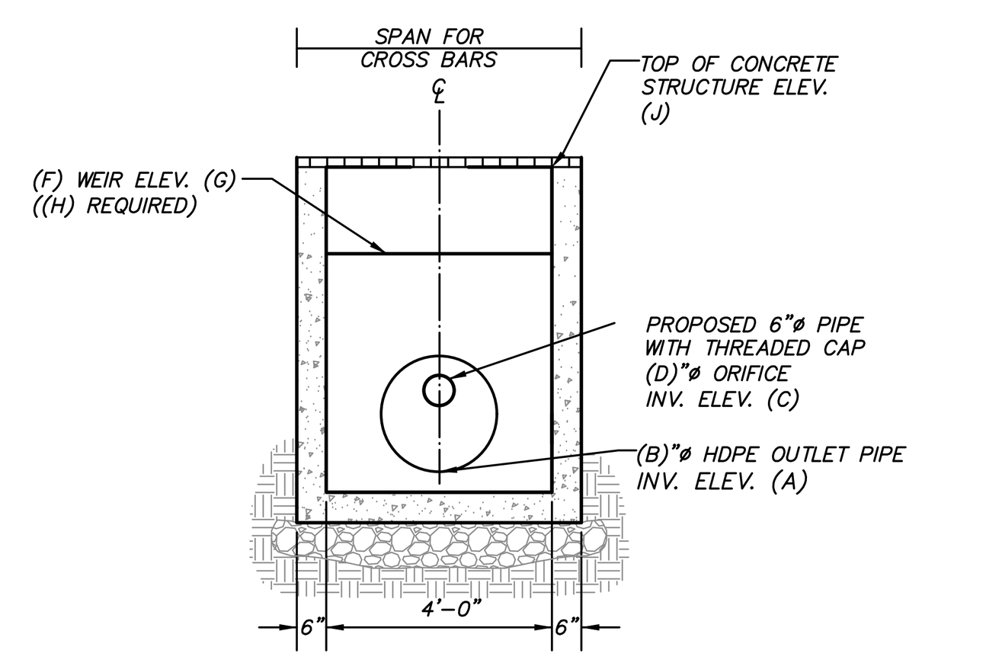
SECTION

(N.T.S.)



OUTLET STRUCTURE PLAN

(N.T.S.)



OUTLET STRUCTURE ELEVATION

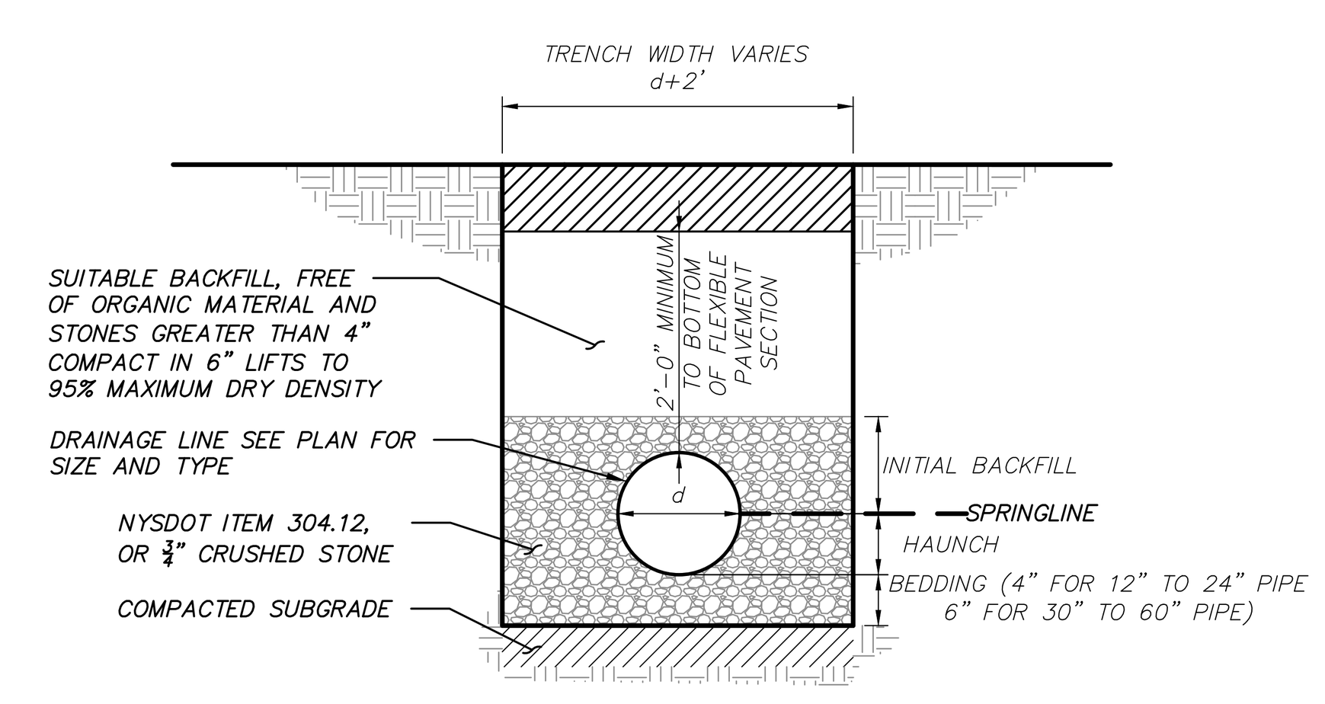
(N.T.S.)

STORMWATER MANAGMENT PRACTICE	OUTLET PIPE ELEVATION (A)	OUTLET PIPE DIAMETER Ø" (B)	ORIFICE INVERT ELEV. (C)	ORIFICE DIAMETER Ø" (D)	LOW FLOW INVERT ELEV. (E)	WEIR LENGTH (ft.)(each) (F)	WEIR ELEVATION (G)	NUMBER OF WEIRS REQUIRED (H)	TOP OF BERM ELEVATION (I)	TOP OF OUTLET STRUCTURE ELEVATION (J)	BOTTOM OF BASIN ELEVATION (K)	1-YEAR 24 HOUR DESIGN STORM ELEVATION (L)	10-YEAR 24 HOUR DESIGN STORM ELEVATION (M)	100-YEAR 24 HOUR DESIGN STORM ELEVATION (N)	LENGTH OF PERFORATED UNDER DRAIN (O)	LENGTH OF SOLID UNDER DRAIN (P)
1.3P	463.0	30"	463.0	8"	463.0	0.8'	464.9	1	470.6	469.6	464.0	465.4	467.2	469.5	120'-0"	10'-0"

3

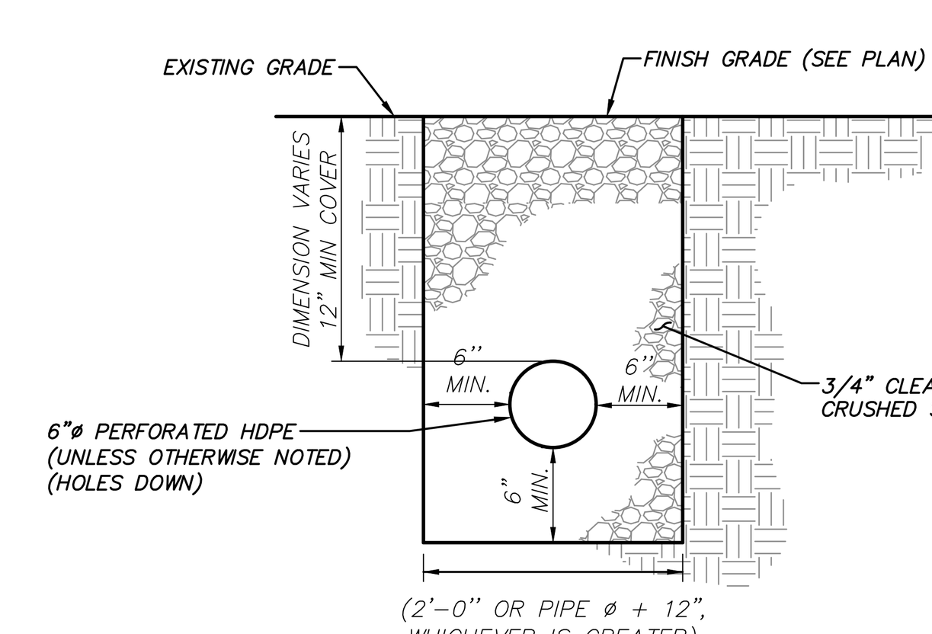
PERMANENT EXTENDED DETENTION DRY STORMWATER BASIN OUTLET STRUCTURE DETAIL

(N.T.S.)



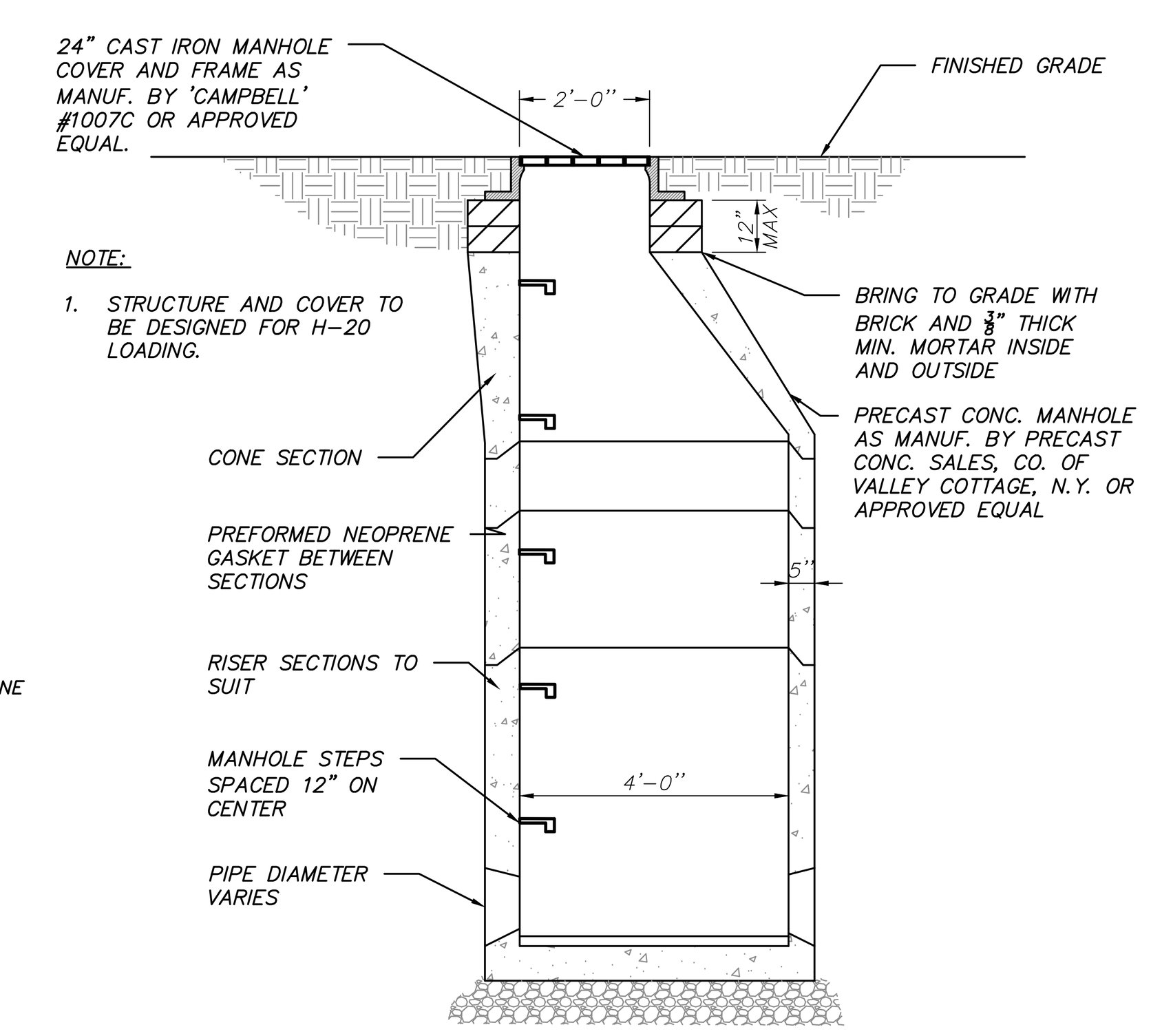
DRAINAGE LINE TRENCH DETAIL

(N.T.S.)



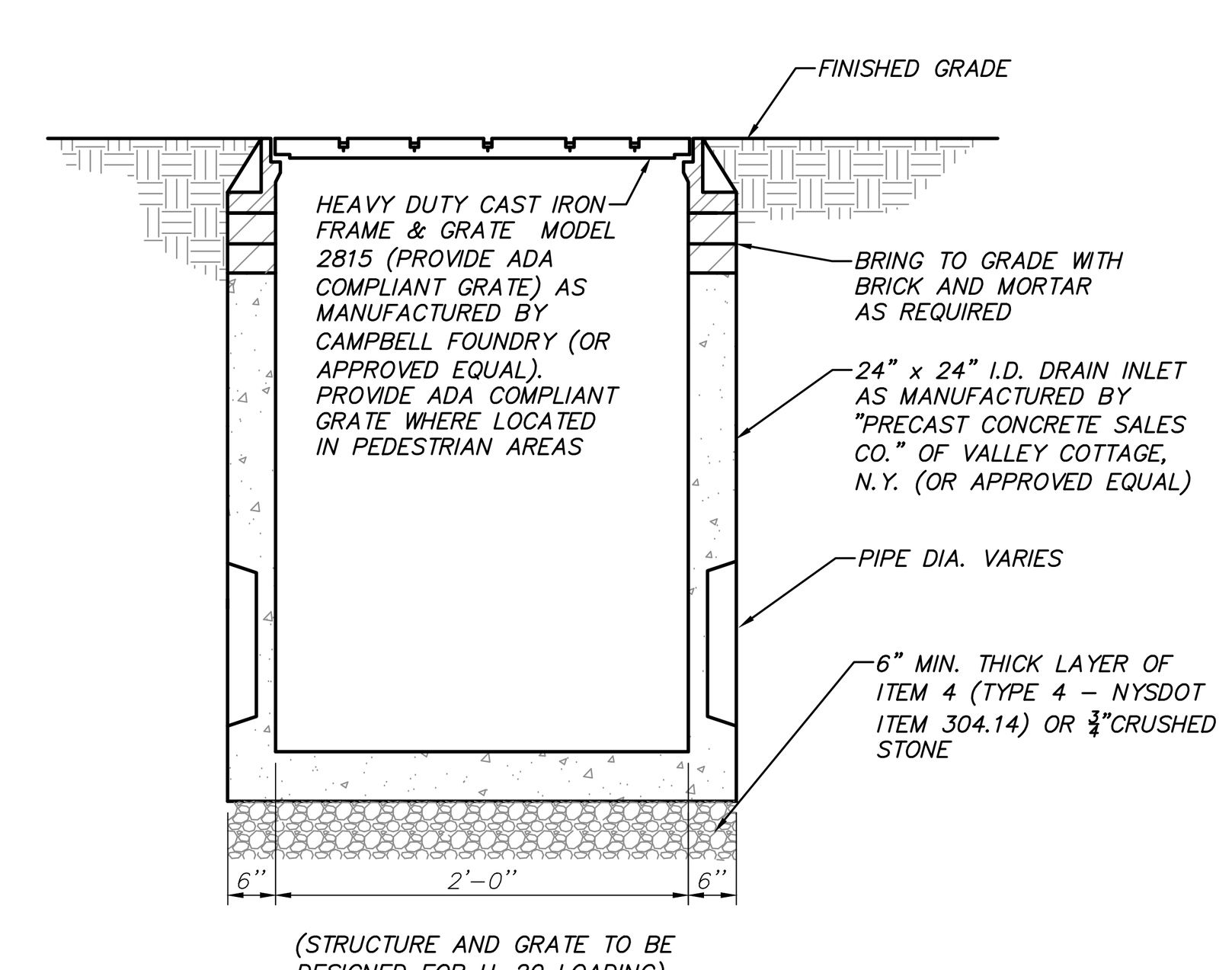
UNDERDRAIN DETAIL

(N.T.S.)



DRAINAGE MANHOLE DETAIL

(N.T.S.)



24" x 24" YARD DRAIN DETAIL

(N.T.S.)

ENGINEERING AND SURVEYING BY:
INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 Garrett Place, Carmel, NY 10512
INSITE PROJECT#: 23149.100

FULLER D'ANGELO P.C.
ARCHITECTS PLANNERS
45 KNOLLWOOD ROAD ELMSFORD NEW YORK 10523
TEL 914.592.4444 FAX 914.592.1717
WWW.FULLERANDDANGELO.COM

LICENSE EXP. DATE: 07-31-2026
CERT. NO: 2438573

S.E.D. CONTROL NUMBER:
BREWSTER HIGH SCHOOL
48-06-01-06-0-004-018

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
BREWSTER H.S. & ADMINISTRATION BUILDING SECURITY VESTIBULE, SYNTHETIC FIELD & RELATED WORK
50 FOGGINTOWN ROAD BREWSTER, NY 10509

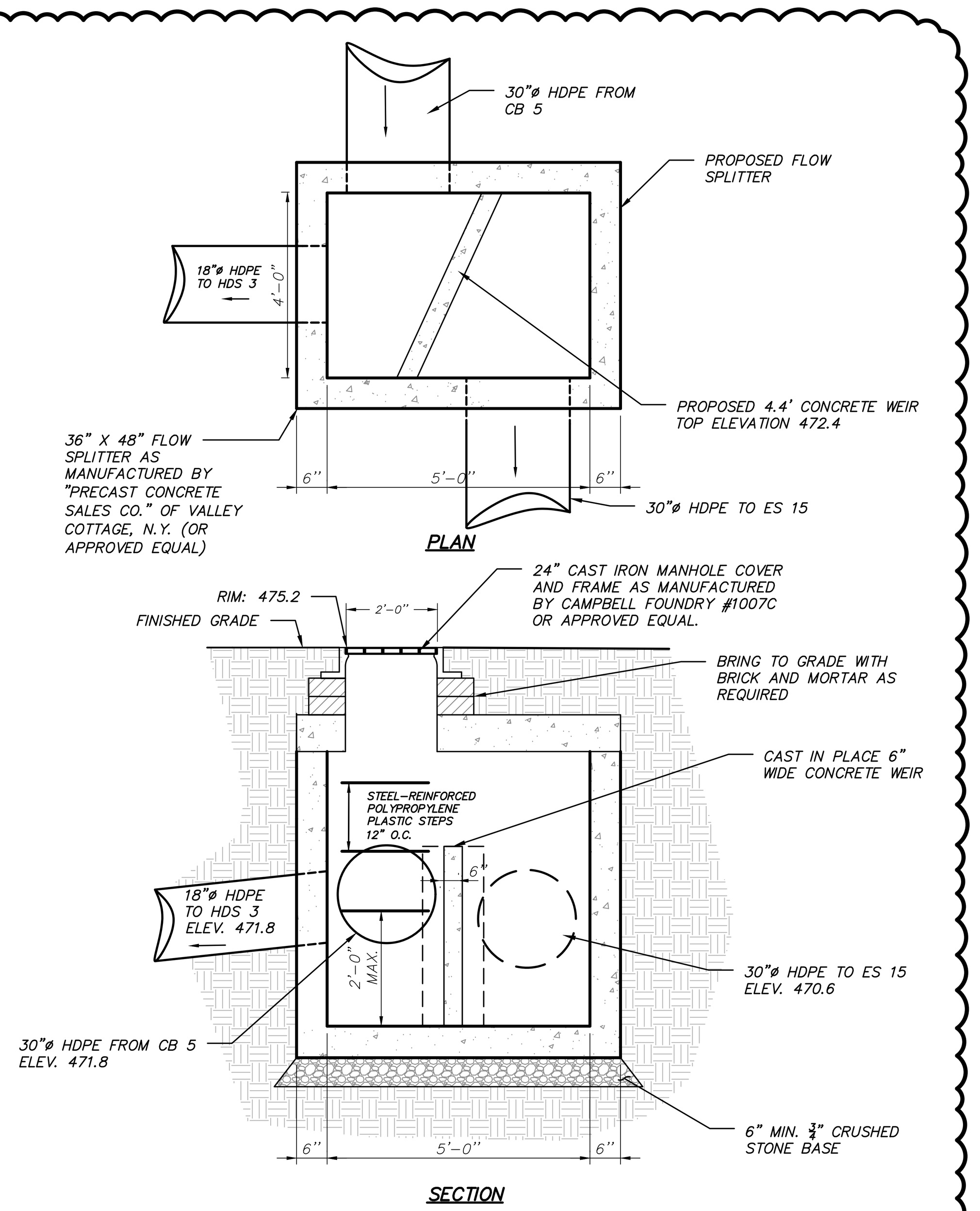
DRAWING TITLE
ATHLETIC FIELD, TRACK, AND PARKING AT BREWSTER HIGH SCHOOL
DETAILS

DATE	ISSUED TO
04-23-2024	BID
10-25-2023	NYCDEP SUBMISSION
10-02-2023	CD SUBMISSION
06-20-2023	SD SUBMISSION
06-13-2023	SD SUBMISSION

SHEET SIZE 30"x42"
SCALE AS SHOWN
DRAWN BY MEU
DRAWING NO. BHS C707
FILE NO. 23505.01

PLOT DATE: May 06, 2024 - 4:44pm

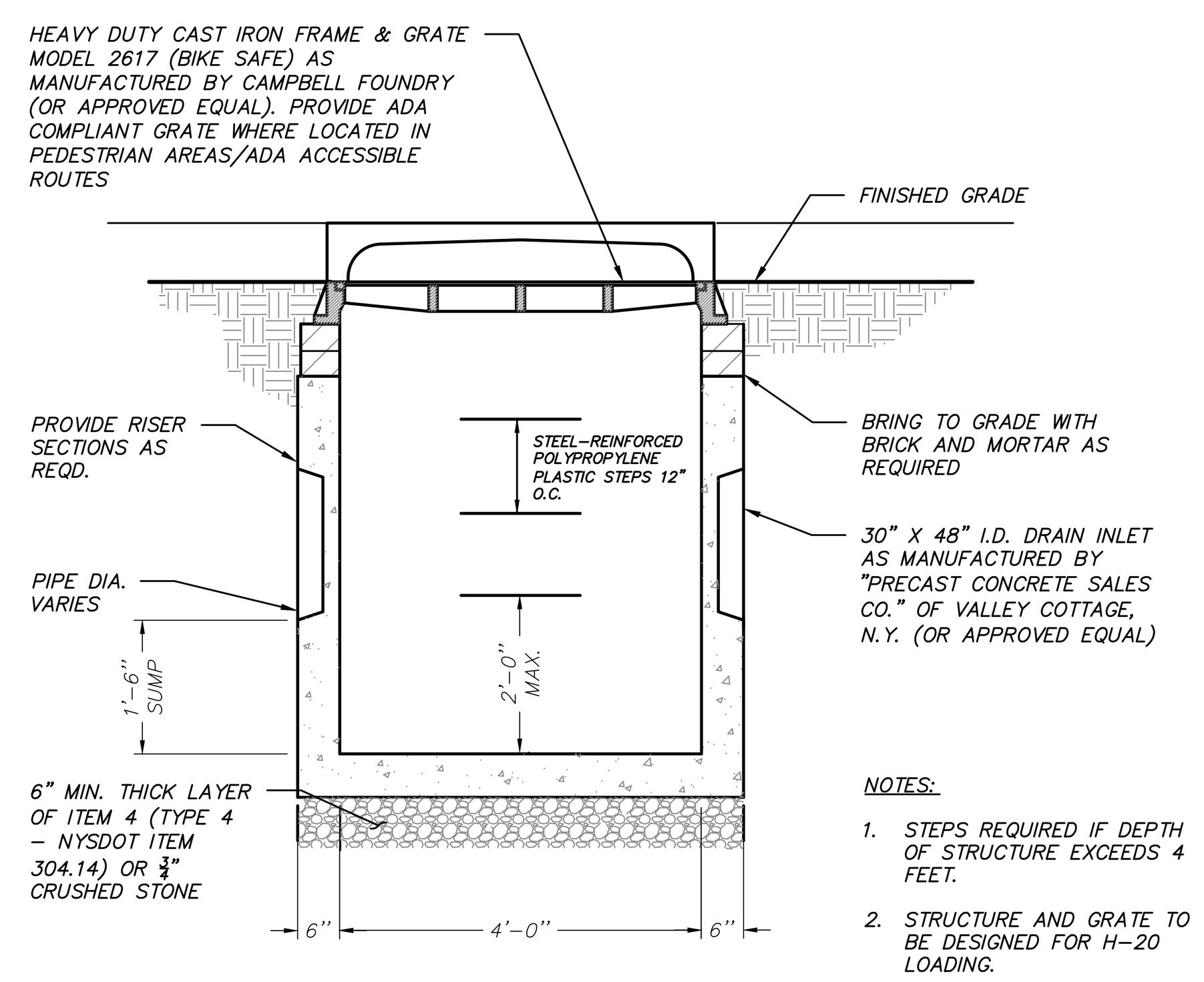
FILE: Z:\E\23149100 F&D Brewster CSD\CADD Package 1\BHS C701.dwg



FLOW SPLITTER FS 4 DETAIL

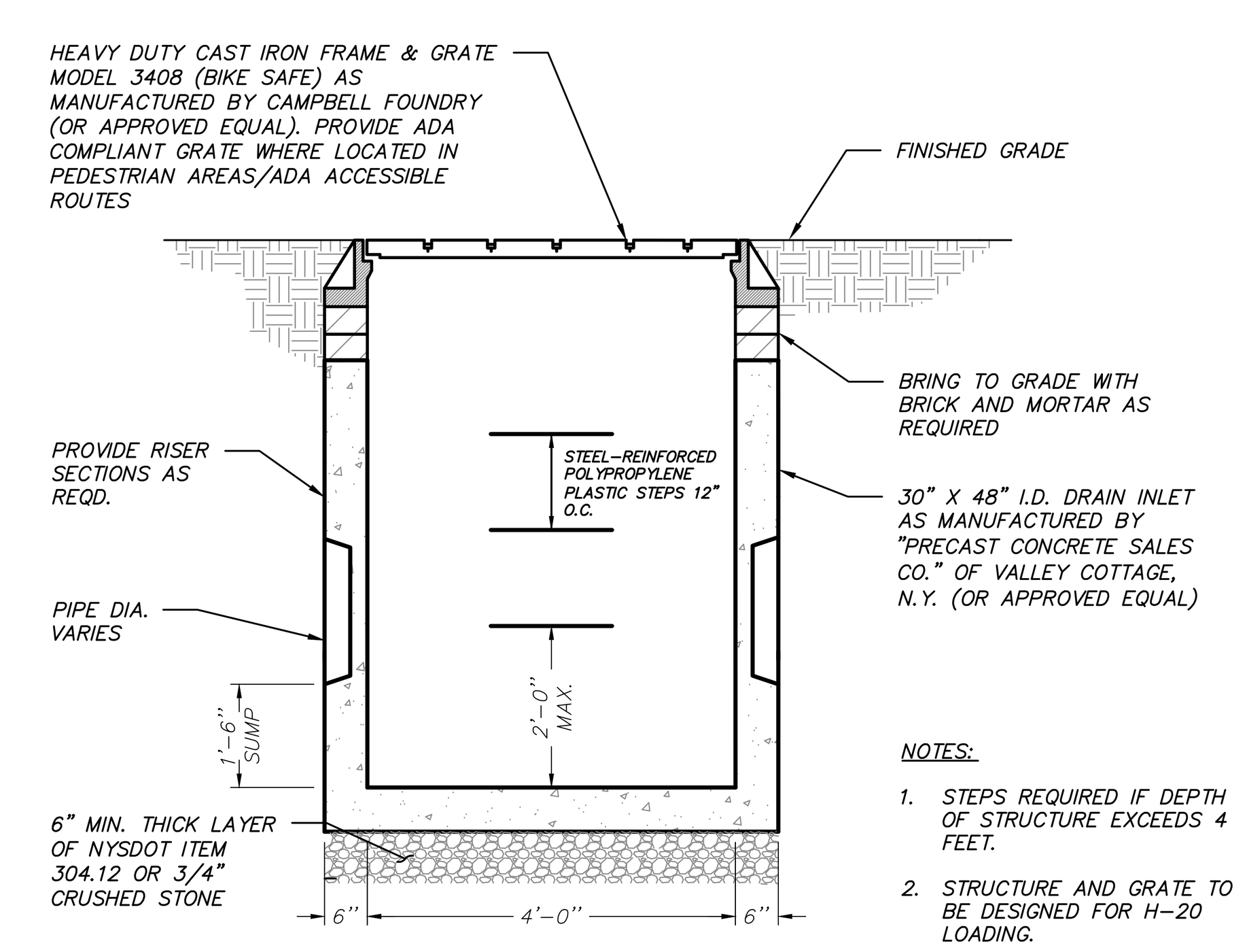
(N.T.S.)

3



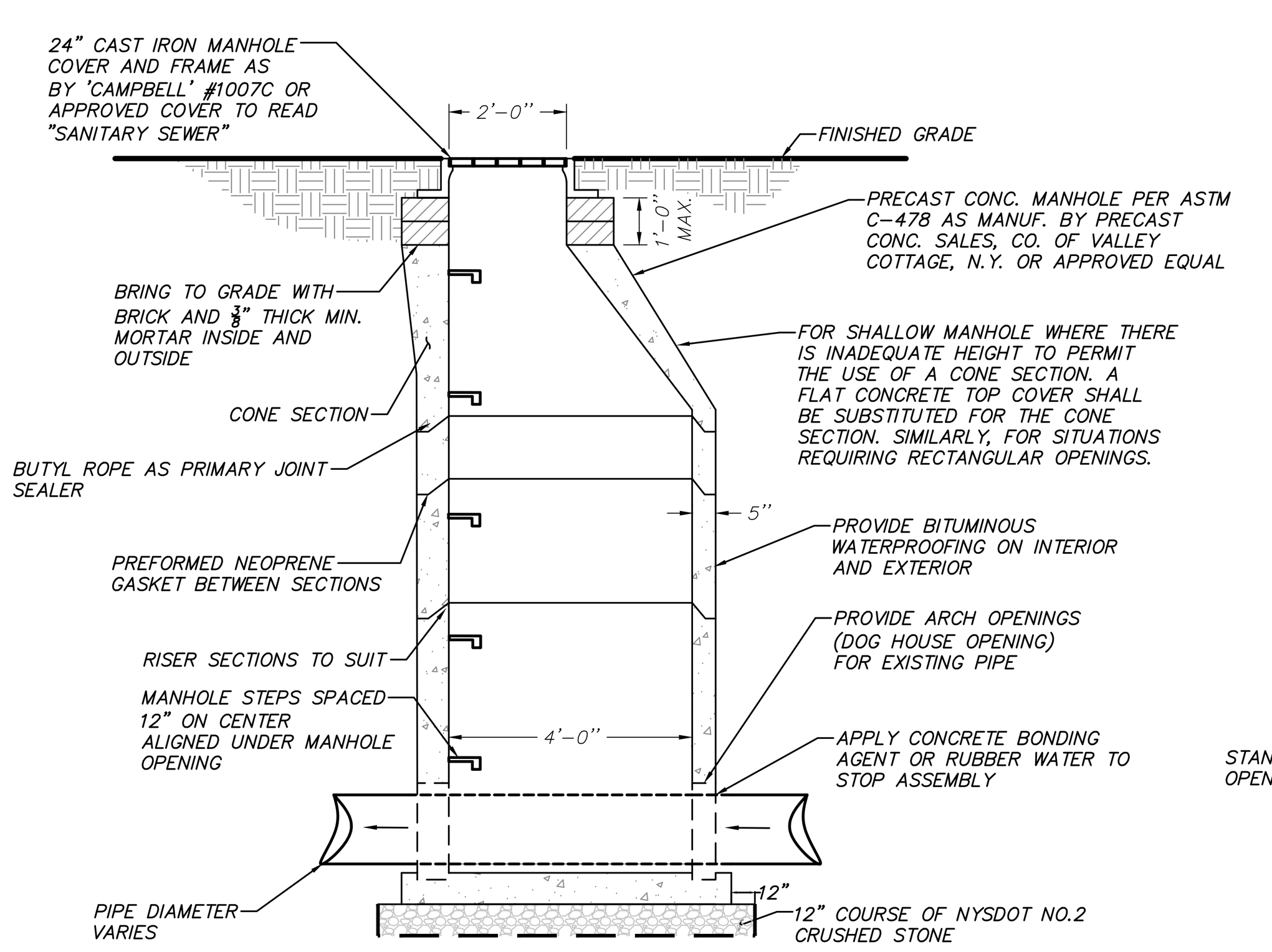
30" X 48" CATCH BASIN DETAIL

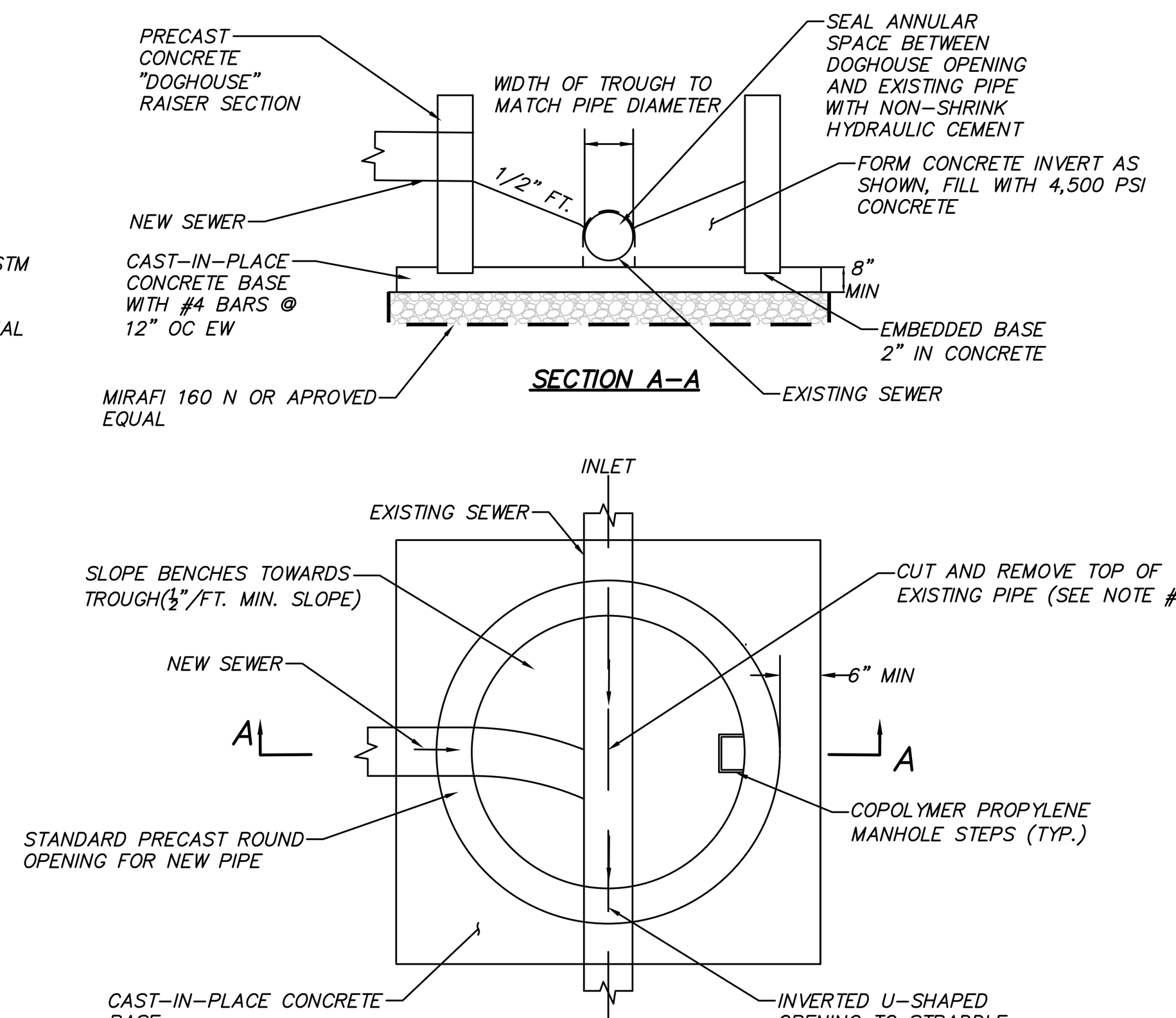
(N.T.S.)



30" X 48" DRAIN INLET DETAIL

(N.T.S.)

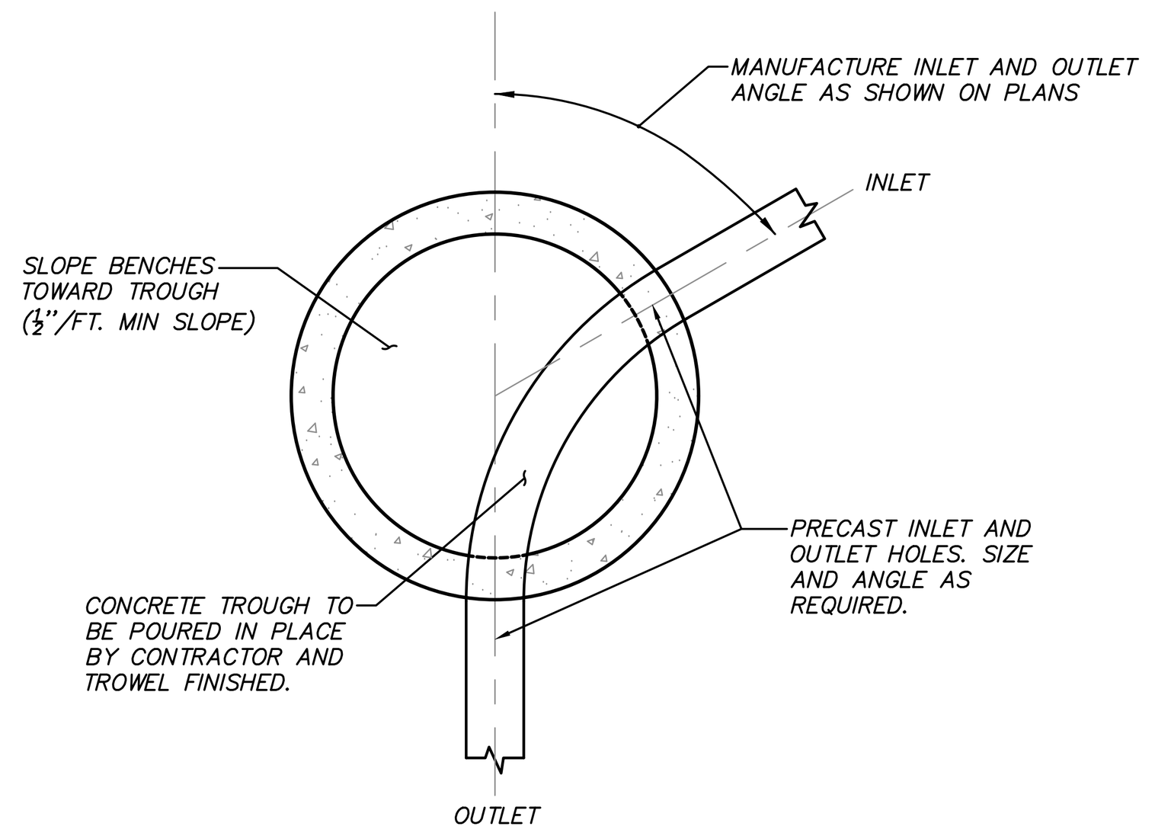




NOTE:
1. THE CONTRACTOR SHALL NOT CUT NOR COMPROMISE THE EXISTING SEWER MAIN DURING DOG HOUSE MANHOLE INSTALLATION. THE INSTALLATION AND REQUIRED SEWER TESTING SHALL BE COMPLETED AND APPROVED BY THE DESIGN ENGINEER PRIOR TO CUTTING THE EXITING SEWER MAIN.
2. INVERT SHALL BE FILLETED.
3. REINFORCEMENT FOR MANHOLE COMPONENTS SHALL BE DESIGNED BY A LICENSED NEW YORK STATE PROFESSIONAL ENGINEER PRIOR TO CONSTRUCTION . SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW. STRUCTURE SHALL BE DESIGNED FOR HS-20 VEHICULAR LOADING.
4. CONCRETE TO TEST 4,500 PSI. AT 28 DAYS IN CONFORMANCE WITH A.S.T.M C-478.
5. BENCH SHALL BE BUILT FOR FLOW BETWEEN INLET AND OUTLET.
6. EACH MANHOLE EXTERIOR SHALL RECEIVE TWO BITUMINOUS COATS.
7. MINIMUM DIAMETER FOR PIPES GREATER THAN 20 INCHES SHALL BE 6'-0".
8. BENCH SHALL BE BUILT FOR FLOW BETWEEN INLET AND OUTLET.

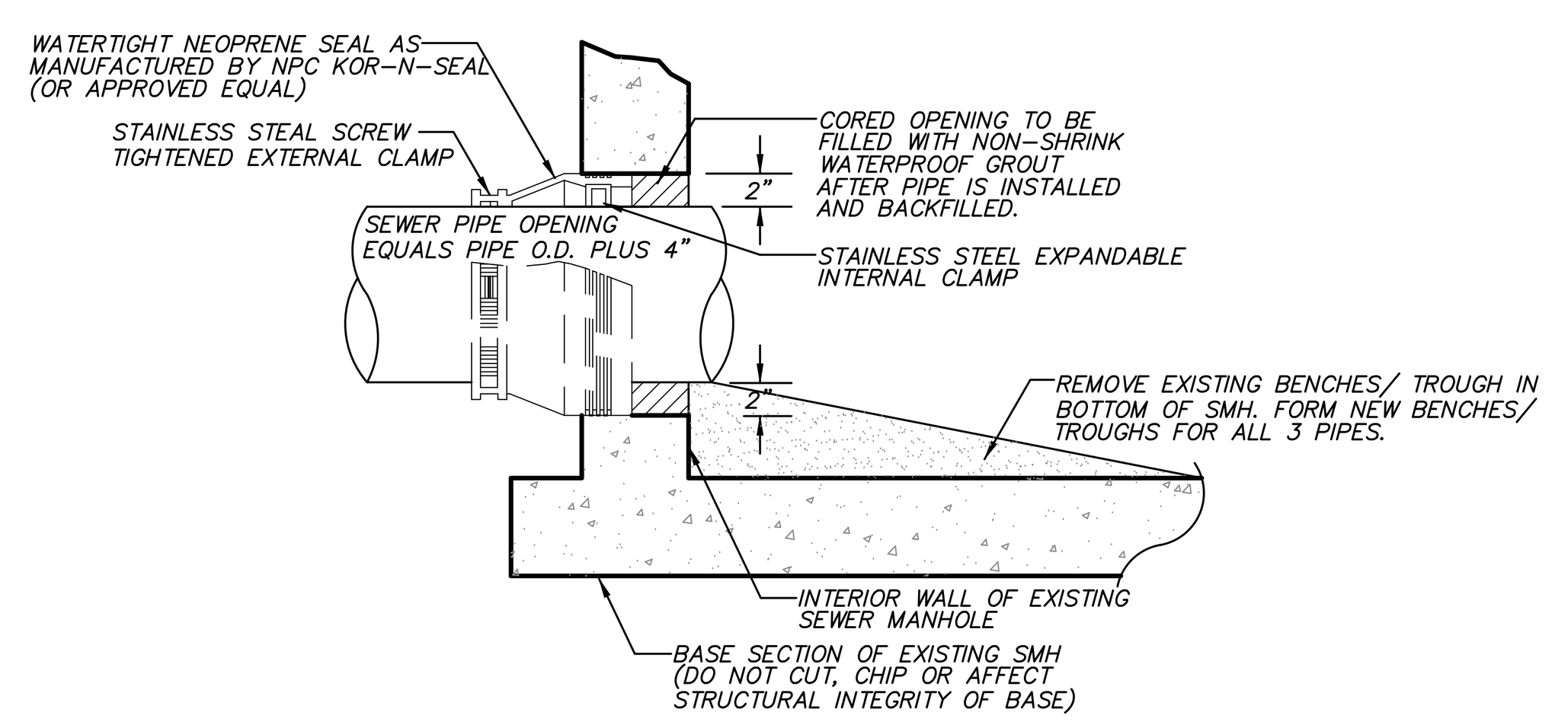
DOGHOUSE SEWER MANHOLE DETAIL

(N.T.S.)



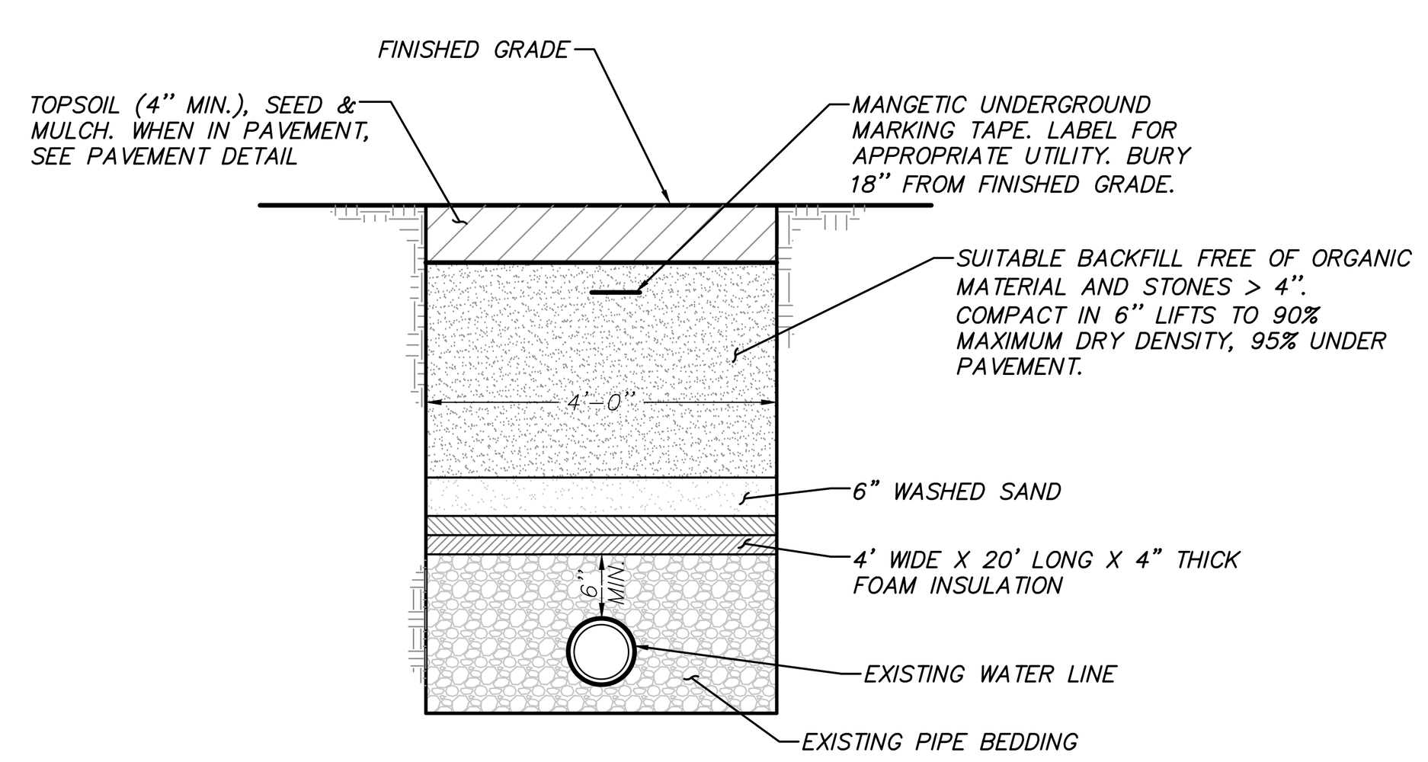
MANHOLE TROUGH DETAIL

(N.T.S.)

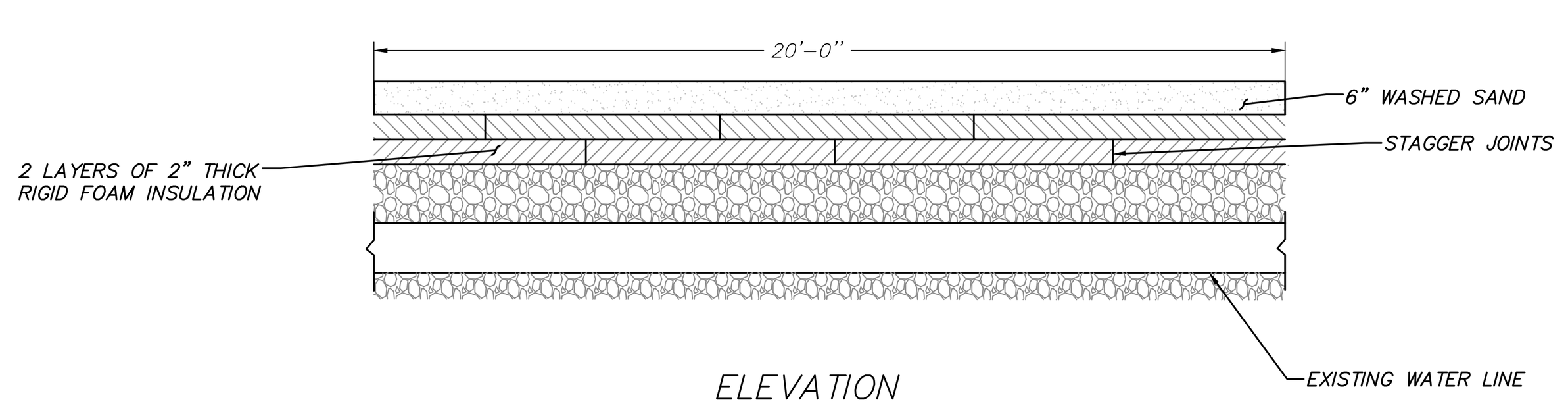


PROPOSED SEWER CONNECTION TO EXISTING SEWER MANHOLE DETAIL

(N.T.S.)



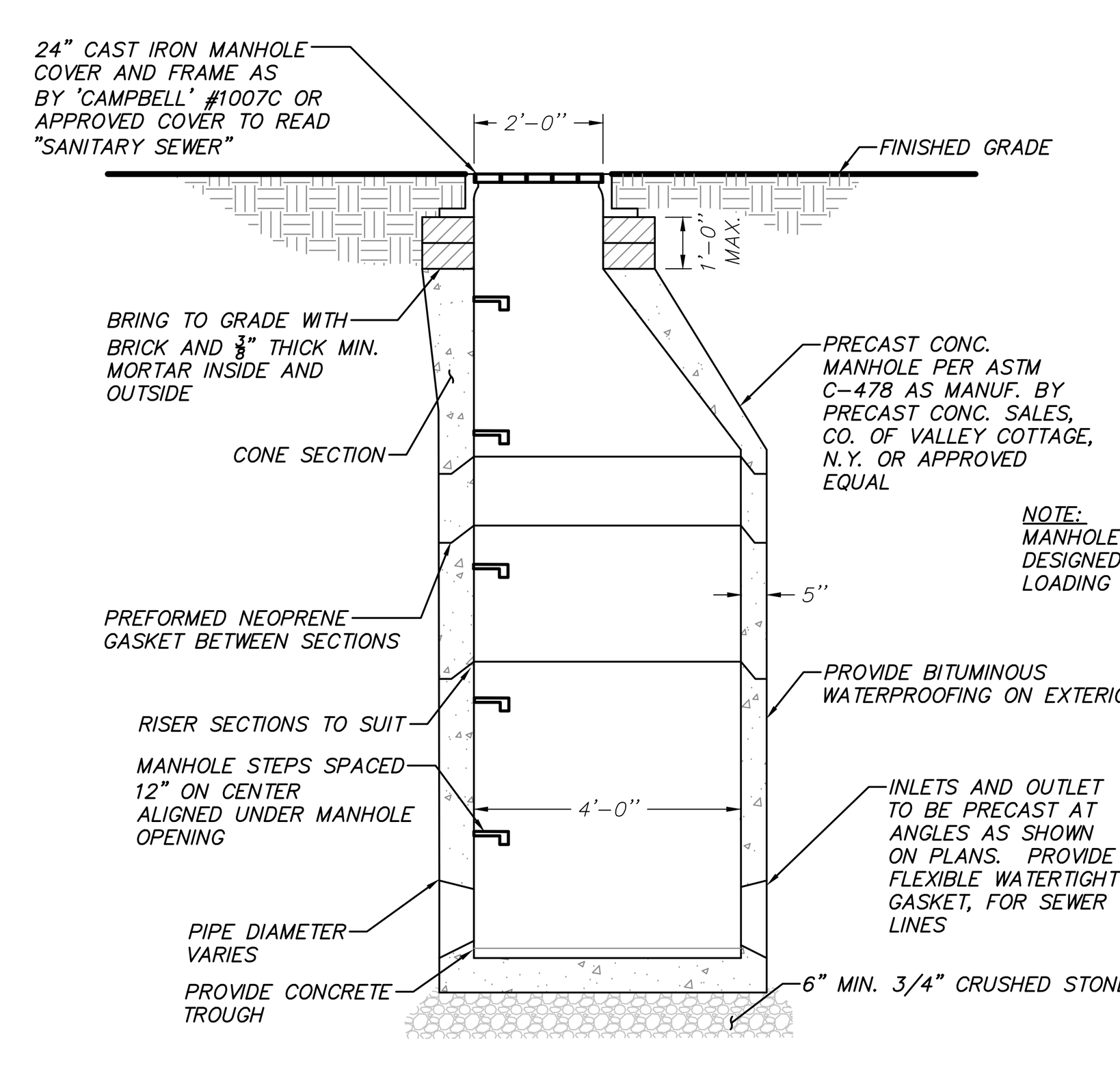
SECTION



ELEVATION

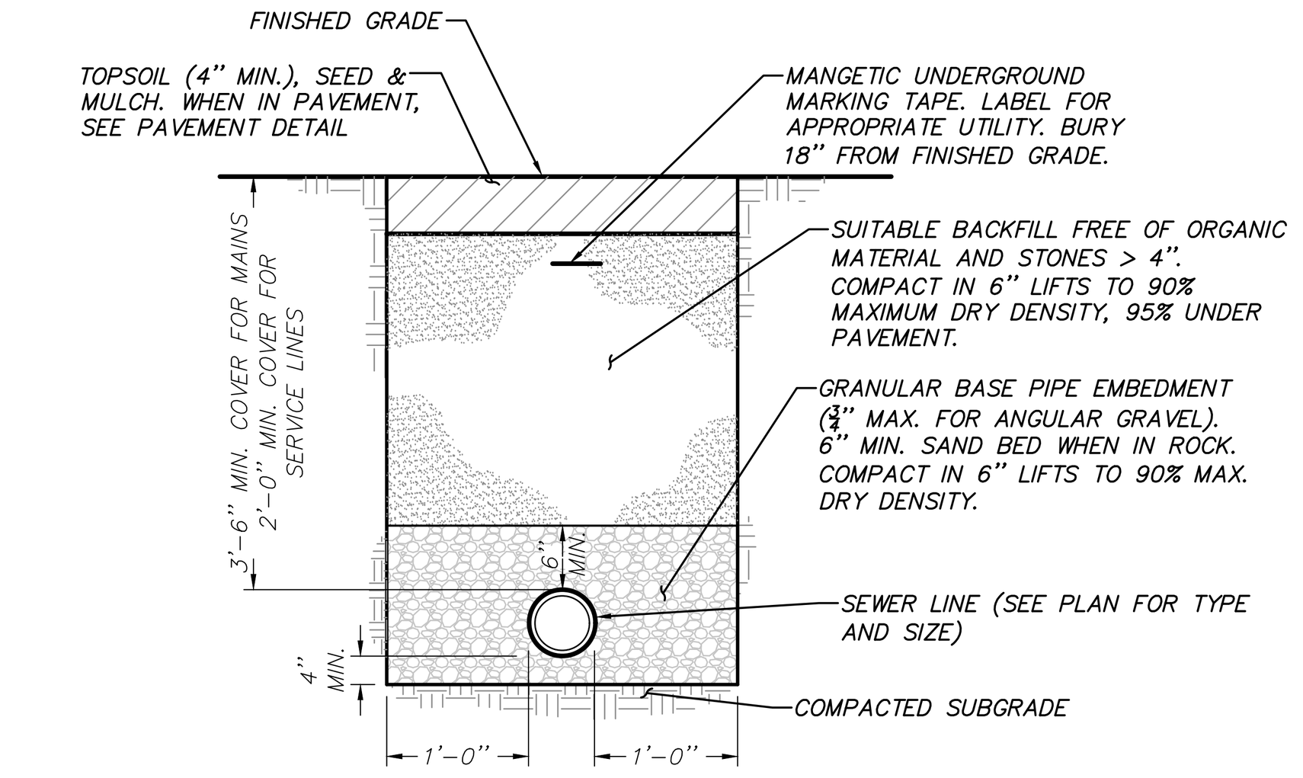
WATER LINE INSULATION DETAIL

(N.T.S.)



SEWER MANHOLE DETAIL

(N.T.S.)



SEWER TRENCH DETAIL

(N.T.S.)

ENGINEERING AND SURVEYING BY:
INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 Garrett Place
Carmel, NY 10512
(845) 225-9690
(845) 225-9717 fax
www.insite-eng.com
INSITE PROJECT#: 23149.100

FULLER D'ANGELO P.C.
ARCHITECTS PLANNERS
45 KNOLLWOOD ROAD ELMSFORD NEW YORK 10523
TEL 914.592.4444 FAX 914.592.1717
WWW.FULLERDANGELO.COM

LICENSE EXP. DATE: 07-31-2026
CERT. NO: 2438573

S.E.D. CONTROL NUMBER:

BREWSTER HIGH SCHOOL
48-06-01-06-0-004-018

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
BREWSTER H.S. & ADMINISTRATION BUILDING
SECURITY VESTIBULE, SYNTHETIC FIELD & RELATED WORK
50 FOGGINTOWN ROAD BREWSTER, NY 10509

DRAWING TITLE
ATHLETIC FIELD, TRACK, AND PARKING AT BREWSTER HIGH SCHOOL

DETAILS

DATE	ISSUED TO
04-23-2024	BID
10-25-2023	NYCDEP SUBMISSION
10-02-2023	CD SUBMISSION
06-20-2023	SD SUBMISSION
06-13-2023	SD SUBMISSION

SHEET SIZE 30"x42"

SCALE AS SHOWN

DRAWING NO. BHS C708

DRAWN BY MEU

FILE NO. 23505.01

PLOT DATE: May 06, 2024 - 4:33pm

FILE: Z:\E\23149100 F&D Brewster CSD\CADD Package 1\BHS C701.dwg

SECTION 00 2115
RFI FORM

CONTRACTOR'S REQUEST FOR INTERPRETATION NO. 8 **F&D RFI NO:** 010
(F&D USE)

NAME OF PROJECT: BHS Security Vestibule, Synthetic Fields & Related Work
NAME OF OWNER: Brewster Central School District
FACILITY: Brewster High School
DATE: _____
A/E PROJECT NO: 23505.01
ARCHITECT: Architect
45 Knollwood Road, Elmsford, NY 10523
Tel: 914-592-4444; Fax: 914-592-1717
William Means, RA WilliamM@fullerdangelo.com

Refer to Section 00 2113 Par 1.12 for additional requirements.

FROM (CO. NAME): LandVscape Inc. dba Nicky Diggs Excavation
CONTACT NAME: _____
Tel: 914.232.1878 **E-mail:** admin@nickydiggs.com
SUBJECT: _____
DISCIPLINE/TRADE: _____
DWG./SPEC. REFERENCE: _____
QUESTION: Pipe size is not on utility lay out plan and profile.
Please advise.

___ **FIELD CONDITION**
___ **DRAWING/SPEC**
___ **DISCREPANCY**
___ **OWNER CHANGE**
___ **CLARIFICATION**
___ **CONTRACTOR'S SUGGESTION (IF APPLICABLE):**

ANSWER
Pipe sizes are provided on drainage and sewer profile drawings C601 & C602. Additional information is provided on drainage table on C401. Underdrain and other information is on C700 series drawings.

ARCHITECT'S SIGNATURE: _____ RA **DATE:** 5/7/2024

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive.

SECTION 00 2115
RFI FORM

CONTRACTOR'S REQUEST FOR INTERPRETATION NO. 1 **F&D RFI NO:** 011
(F&D USE)

NAME OF PROJECT: BHS Security Vestibule, Synthetic Fields & Related Work
NAME OF OWNER: Brewster Central School District
FACILITY: Brewster High School
DATE: 5/6/2024
A/E PROJECT NO: 23505.01
ARCHITECT: Architect
45 Knollwood Road, Elmsford, NY 10523
Tel: 914-592-4444; Fax: 914-592-1717
William Means, RA WilliamM@fullerdangelo.com

Refer to Section 00 2113 Par 1.12 for additional requirements.

FROM (CO. NAME): LandVscape Inc. dba Nicky Diggs Excavation
CONTACT NAME:
Tel: 914.232.1878 **E-mail:** admin@nickydiggs.com
SUBJECT:
DISCIPLINE/TRADE: Site Contractor
DWG./SPEC. REFERENCE:
QUESTION: At walk through it was stated that this is a balanced site . Please confirm if this is correct?

___ **FIELD CONDITION**
___ **DRAWING/SPEC**
___ **DISCREPANCY**
___ **OWNER CHANGE**
___ **CLARIFICATION**
___ **CONTRACTOR'S SUGGESTION (IF APPLICABLE):**

ANSWER
Confirmed.

ARCHITECT'S SIGNATURE: MWL M RA **DATE:** 5/7/2024

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive.

SECTION 00 2115
RFI FORM

CONTRACTOR'S REQUEST FOR INTERPRETATION NO. 3 **F&D RFI NO:** 012
(F&D USE)

NAME OF PROJECT: BHS Security Vestibule, Synthetic Fields & Related Work
NAME OF OWNER: Brewster Central School District
FACILITY: Brewster High School
DATE: 5/6/2024
A/E PROJECT NO: 23505.01
ARCHITECT: Architect
45 Knollwood Road, Elmsford, NY 10523
Tel: 914-592-4444; Fax: 914-592-1717
William Means, RA WilliamM@fullerdangelo.com

Refer to Section 00 2113 Par 1.12 for additional requirements.

FROM (CO. NAME): LandVscape Inc. dba Nicky Diggs Excavation
CONTACT NAME: _____
Tel: 914.232.1878 **E-mail:** admin@nickydiggs.com
SUBJECT: _____
DISCIPLINE/TRADE: Site Contractor
DWG./SPEC. REFERENCE: _____
QUESTION: Are we allowed to reclaim asphalt, have it tested and use for subbase?

___ **FIELD CONDITION**
___ **DRAWING/SPEC**
___ **DISCREPANCY**
___ **OWNER CHANGE**
___ **CLARIFICATION**
___ **CONTRACTOR'S SUGGESTION (IF APPLICABLE):**

ANSWER
No. Conform to NYSDOT #304.12.

ARCHITECT'S SIGNATURE: _____ **DATE:** 5/7/2024

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SECTION 00 2115
RFI FORM

CONTRACTOR'S REQUEST FOR INTERPRETATION NO. 4 **F&D RFI NO:** 013
(F&D USE)

NAME OF PROJECT: BHS Security Vestibule, Synthetic Fields & Related Work
NAME OF OWNER: Brewster Central School District
FACILITY: Brewster High School
DATE: 5/6/2024
A/E PROJECT NO: 23505.01
ARCHITECT: Architect
45 Knollwood Road, Elmsford, NY 10523
Tel: 914-592-4444; Fax: 914-592-1717
William Means, RA WilliamM@fullerdangelo.com

Refer to Section 00 2113 Par 1.12 for additional requirements.

FROM (CO. NAME): LandVscape Inc. dba Nicky Diggs Excavation
CONTACT NAME:
Tel: 914.232.1878 **E-mail:** admin@nickydiggs.com
SUBJECT:
DISCIPLINE/TRADE: Site Contractor
DWG./SPEC. REFERENCE:
QUESTION: Sheet C304 states - new brick bands surrounding pavers, existing pavers to be reinstalled in same order. Please confirm no new pavers are being purchased only brick bands.
What type of pavers and style is being used for brick bands?

___ **FIELD CONDITION**
___ **DRAWING/SPEC**
___ **DISCREPANCY**
___ **OWNER CHANGE**
___ **CLARIFICATION**
___ **CONTRACTOR'S SUGGESTION (IF APPLICABLE):**

ANSWER
See Addendum #4.

ARCHITECT'S SIGNATURE: WWL M RA **DATE:** 5/7/2024

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive.

SECTION 00 2115
RFI FORM

CONTRACTOR'S REQUEST FOR INTERPRETATION NO. 5 **F&D RFI NO:** 014

(F&D USE)

NAME OF PROJECT: BHS Security Vestibule, Synthetic Fields & Related Work
NAME OF OWNER: Brewster Central School District
FACILITY: Brewster High School
DATE: 5/6/2024
A/E PROJECT NO: 23505.01
ARCHITECT: Architect
45 Knollwood Road, Elmsford, NY 10523
Tel: 914-592-4444; Fax: 914-592-1717
William Means, RA WilliamM@fullerdangelo.com

Refer to Section 00 2113 Par 1.12 for additional requirements.

FROM (CO. NAME): LandVscape Inc. dba Nicky Diggs Excavation
CONTACT NAME:
Tel: 914.232.1878 **E-mail:** admin@nickydiggs.com
SUBJECT:
DISCIPLINE/TRADE: Site Contractor
DWG./SPEC. REFERENCE:
QUESTION: Is it correct that fencing around the security vestibule is not part of contract # 5 site work?

___ **FIELD CONDITION**
___ **DRAWING/SPEC**
___ **DISCREPANCY**
___ **OWNER CHANGE**
___ **CLARIFICATION**
___ **CONTRACTOR'S SUGGESTION (IF APPLICABLE):**

ANSWER
See 01 5000-9, 1.27.

ARCHITECT'S SIGNATURE: [signature] KA **DATE:** 05/7/2024

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive.

SECTION 00 2115
RFI FORM

CONTRACTOR'S REQUEST FOR INTERPRETATION NO. 6 **F&D RFI NO:** 015
(F&D USE)

NAME OF PROJECT: BHS Security Vestibule, Synthetic Fields & Related Work
NAME OF OWNER: Brewster Central School District
FACILITY: Brewster High School
DATE: 5/6/2024
A/E PROJECT NO: 23505.01
ARCHITECT: Architect
45 Knollwood Road, Elmsford, NY 10523
Tel: 914-592-4444; Fax: 914-592-1717
William Means, RA WilliamM@fullerdangelo.com

Refer to Section 00 2113 Par 1.12 for additional requirements.

FROM (CO. NAME): LandVscape Inc. dba Nicky Diggs Excavation
CONTACT NAME:
Tel: 914.232.1878 **E-mail:** admin@nickydiggs.com
SUBJECT:
DISCIPLINE/TRADE: Site Contractor
DWG./SPEC. REFERENCE:
QUESTION: On sheet C707 proposed flat drain calls for 3" drainage stone above and below flat drain. The profile of the flat drain is generally 2.5-3 top to bottom. Are we installing 9" or 6" stone base?

___ **FIELD CONDITION**
___ **DRAWING/SPEC**
___ **DISCREPANCY**
___ **OWNER CHANGE**
___ **CLARIFICATION**
___ **CONTRACTOR'S SUGGESTION (IF APPLICABLE):**

ANSWER
See Addendum #2, SK-3.

ARCHITECT'S SIGNATURE: MWL ME — KA **DATE:** 5/7/2024

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive.

SECTION 00 2115
RFI FORM

CONTRACTOR'S REQUEST FOR INTERPRETATION NO. 1 **F&D RFI NO:** 016
(F&D USE)

NAME OF PROJECT: BHS Security Vestibule, Synthetic Fields & Related Work
NAME OF OWNER: Brewster Central School District
FACILITY: Brewster High School
DATE: 5/6/2024
A/E PROJECT NO: 23505.01
ARCHITECT: Architect
45 Knollwood Road, Elmsford, NY 10523
Tel: 914-592-4444; Fax: 914-592-1717
William Means, RA WilliamM@fullerdangelo.com

Refer to Section 00 2113 Par 1.12 for additional requirements.

FROM (CO. NAME): LandVscape Inc. dba Nicky Diggs Excavation
CONTACT NAME:
Tel: 914.232.1878 **E-mail:** admin@nickydiggs.com
SUBJECT:
DISCIPLINE/TRADE: Site Contractor
DWG./SPEC. REFERENCE:
QUESTION: What type of material for the turf nailer, wood or composite material?

___ **FIELD CONDITION**
___ **DRAWING/SPEC**
___ **DISCREPANCY**
___ **OWNER CHANGE**
___ **CLARIFICATION**
___ **CONTRACTOR'S SUGGESTION (IF APPLICABLE):**

ANSWER
Composite material as per details on drawing BHS C701.

ARCHITECT'S SIGNATURE: WWL M RA **DATE:** 5/7/2024

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive.

SECTION 00 2115
RFI FORM

CONTRACTOR'S REQUEST FOR INTERPRETATION NO. 2 **F&D RFI NO:** 017
(F&D USE)

NAME OF PROJECT: **BHS Security Vestibule, Synthetic Fields & Related Work**
NAME OF OWNER: **Brewster Central School District**
FACILITY: **Brewster High School**
DATE: 5/7/24
A/E PROJECT NO: **23505.01**
ARCHITECT: **Architect**
45 Knollwood Road, Elmsford, NY 10523
Tel: 914-592-4444; Fax: 914-592-1717
William Means, RA **WilliamM@fullerdangelo.com**

Refer to Section 00 2113 Par 1.12 for additional requirements.

FROM (CO. NAME): Joe Lombardo Plumbing & Heating of Rockland, Inc.
CONTACT NAME: Eve Fernandez
Tel: 845-357-6537 x2989 **E-mail:** estimating@josephlombardo.com
SUBJECT: Section 004402 - Hold Harmless Agreement
DISCIPLINE/TRADE:
DWG./SPEC. REFERENCE: Section 00 4402 - Hold Harmless Agreement
QUESTION: The Hold Harmless Agreement must accompany the bid documents. Where is this document in the specs?

___ **FIELD CONDITION**
✔ **DRAWING/SPEC**
___ **DISCREPANCY**
___ **OWNER CHANGE**
___ **CLARIFICATION**
___ **CONTRACTOR'S SUGGESTION (IF APPLICABLE):**

ANSWER
See Addendum #3

ARCHITECT'S SIGNATURE: _____ RA **DATE:** 5/7/2024

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive.

SECTION 00 2115
RFI FORM

CONTRACTOR'S REQUEST FOR INTERPRETATION NO. 001 **F&D RFI NO:** 018
(F&D USE)

NAME OF PROJECT: **BHS Security Vestibule, Synthetic Fields & Related Work**
NAME OF OWNER: **Brewster Central School District**
FACILITY: **Brewster High School**
DATE: 05/07/2024
A/E PROJECT NO: **23505.01**
ARCHITECT: **Architect**
45 Knollwood Road, Elmsford, NY 10523
Tel: 914-592-4444; Fax: 914-592-1717
William Means, RA **WilliamM@fullerdangelo.com**

Refer to Section 00 2113 Par 1.12 for additional requirements.

FROM (CO. NAME): DeRosa Sports Construction Inc.
CONTACT NAME: Mathew DeRosa
Tel: 914-341-1506 **E-mail:** john@derosasports.com
SUBJECT: Track Surface Specifications (or Absence of)
DISCIPLINE/TRADE: Synthetic Track Surfacing
DWG./SPEC. REFERENCE: N/A
QUESTION: Please provide a synthetic track surfacing specification.
The bid documents contain only a track marking specification (321824).
Also, please confirm track color is GREEN as stated on drawings?

___ **FIELD CONDITION**
___ **DRAWING/SPEC**
___ **DISCREPANCY**
___ **OWNER CHANGE**
___ **CLARIFICATION**
___ **CONTRACTOR'S SUGGESTION (IF APPLICABLE):**

ANSWER
Specification Section 32 1823 Resilient Surface follows section 31 1000 in the project manual.
Yes, color is green.

ARCHITECT'S SIGNATURE: MWL MK KA **DATE:** 5/7/2024

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive.

SECTION 00 2115
RFI FORM

CONTRACTOR'S REQUEST FOR INTERPRETATION NO. 002 **F&D RFI NO:** 019
(F&D USE)

NAME OF PROJECT: BHS Security Vestibule, Synthetic Fields & Related Work
NAME OF OWNER: Brewster Central School District
FACILITY: Brewster High School
DATE: 05/07/2024
A/E PROJECT NO: 23505.01
ARCHITECT: Architect
45 Knollwood Road, Elmsford, NY 10523
Tel: 914-592-4444; Fax: 914-592-1717
William Means, RA WilliamM@fullerdangelo.com

Refer to Section 00 2113 Par 1.12 for additional requirements.

FROM (CO. NAME): DeRosa Sports Construction, Inc.
CONTACT NAME: Tom DeRosa
Tel: 914-341-1506 **E-mail:** Tom@derosasports.com
SUBJECT: Alternate # S-2
DISCIPLINE/TRADE: Site Contractor
DWG./SPEC. REFERENCE: Layout Plan
QUESTION: Please provide the dimensions for the alternate concrete bleacher pad and what is the required under the Base Bid for the concrete sidewalk to the track.

62.3' x 13.0' bleacher pad. Concrete walk to the track is Base Bid.

___ **FIELD CONDITION**
___ **DRAWING/SPEC**
___ **DISCREPANCY**
___ **OWNER CHANGE**
___ **CLARIFICATION**
___ **CONTRACTOR'S SUGGESTION (IF APPLICABLE):**

ANSWER

ARCHITECT'S SIGNATURE: WWL ML RA **DATE:** 5/7/2024

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive.

SECTION 00 2115
RFI FORM

CONTRACTOR'S REQUEST FOR INTERPRETATION NO. 003 **F&D RFI NO:** 020
(F&D USE)

NAME OF PROJECT: **BHS Security Vestibule, Synthetic Fields & Related Work**
NAME OF OWNER: **Brewster Central School District**
FACILITY: **Brewster High School**
DATE: 05/07/2024
A/E PROJECT NO: **23505.01**
ARCHITECT: **Architect**
45 Knollwood Road, Elmsford, NY 10523
Tel: 914-592-4444; Fax: 914-592-1717
William Means, RA **WilliamM@fullerdangelo.com**

Refer to Section 00 2113 Par 1.12 for additional requirements.

FROM (CO. NAME): DeRosa Sports Construction, Inc.
CONTACT NAME: Tom DeRosa
Tel: 914-341-1506 **E-mail:** Tom@derosasports.com
SUBJECT: Alternate # S-3
DISCIPLINE/TRADE: Site Contractor
DWG./SPEC. REFERENCE: Layout Plan
QUESTION: Please provide the location of Alternate # S-3 the asphalt pad & sub base that is to be restored. It is not shown on the contract drawings.

___ **FIELD CONDITION**
___ **DRAWING/SPEC**
___ **DISCREPANCY**
___ **OWNER CHANGE**
___ **CLARIFICATION**
___ **CONTRACTOR'S SUGGESTION (IF APPLICABLE):**

ANSWER
See drawing BHS C202.

ARCHITECT'S SIGNATURE: **DATE:**

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive.

SECTION 00 2115
RFI FORM

CONTRACTOR'S REQUEST FOR INTERPRETATION NO. 1 **F&D RFI NO:** 021
(F&D USE)

NAME OF PROJECT: BHS Security Vestibule, Synthetic Fields & Related Work
NAME OF OWNER: Brewster Central School District
FACILITY: Brewster High School
DATE: 5/7/2024
A/E PROJECT NO: 23505.01
ARCHITECT: Architect
45 Knollwood Road, Elmsford, NY 10523
Tel: 914-592-4444; Fax: 914-592-1717
William Means, RA WilliamM@fullerdangelo.com

Refer to Section 00 2113 Par 1.12 for additional requirements.

FROM (CO. NAME): DJ Heating & Air Conditioning, Inc.
CONTACT NAME: Vinny Pomarico
Tel: (845)236-4436 **E-mail:** cad@djhvac.com
SUBJECT: APPRENTICE PROGRAM
DISCIPLINE/TRADE: HVAC
DWG./SPEC. REFERENCE: 00 4401 Qualifications of Bidders 1.9 A. 230715 - 2 1.4 A. HVAC DUCT INSULATION 230719 - 2 1.6 A. HVAC PIPING INSULATION
QUESTION: Are there Apprentice Program requirements on this project?
Apprenticeship program is mentioned in the above referenced sections of the bid documents only.

___ **FIELD CONDITION**
___ **DRAWING/SPEC**
___ **DISCREPANCY**
___ **OWNER CHANGE**
X **CLARIFICATION**
___ **CONTRACTOR'S SUGGESTION (IF APPLICABLE):**

ANSWER
No Apprentice Program requirements on this project.

ARCHITECT'S SIGNATURE: [signature] RA **DATE:** 5/7/2024

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive.