

ADDENDUM NO. 1

TO

POLYTECH HIGH SCHOOL
RENOVATIONS AND ADDITIONS
BID PACKAGE 'A'

This addendum is hereby made part of the Project Manual and Drawings dated 9 July 2012.

The Project Manual and Drawings shall be supplemented or amended as specified herein.

This Addendum contains changes to the requirement of the Project Manual. Such changes shall be incorporated into the Contract Documents and shall apply to work with the same meaning and force as if they had been included in the original Documents. Whenever this Addendum modifies a portion of a paragraph of the Project Manual, the remainder of the paragraph affected shall remain in force. Added information is shown as **Bold**, deleted information is shown as ~~strike through~~.

This Addendum contains changes to the requirement of the Drawings. Such changes shall be incorporated into the Contract Documents and shall apply to work with the same meaning and force as if they had been included in the original Documents. Whenever this Addendum modifies a portion of any drawing, the remainder of the drawing affected shall remain in force. Added, deleted or revised information is shown as "clouded".

The conditions and terms of the basic Contract Documents shall govern work unless otherwise described in this Addendum. Whenever the conditions of work, and the quality or quantity of materials, or workmanship are not fully described in this Addendum, the conditions of work included in the basic Contract Documents for similar items of work shall apply to the work described in this Addendum.

If no similar items of work are included in the basic Contract Document, the best quality of material and workmanship shall apply and all work shall be subject to the written acceptance of the Architect.

THE BID OPENING DATE REMAINS UNCHANGED. ALL BIDS ARE DUE AT THE POLYTECH SCHOOL DISTRICT OFFICE, NO LATER THEN 2:00 PM ON THURSDAY 9 AUG 12.

THE LAST DAY FOR QUESTIONS IS THURSDAY 2 AUG 12.

Addendum No. 1 – Consists of the following:

- I. Revisions to Project Manual/Specifications:
 - Section 000110 - Table of Contents
 - Section 004100 – Bid Forms
 - Section 011100 – Summary of Work
 - Section 012300 – Alternates
 - Section 321818 – Tennis Court Repair and Resurfacing
 - Section 329300 – Landscape Development

- II. Revisions to Drawings
 - C-001 Preliminary Overall Site Plan Floor Plans
 - C-102 Demolition Plan
 - C-103 Demolition Plan
 - C-201 Site Plan
 - C-202 Site Plan
 - C-300 Overall Sanitary Sewer Plan
 - C-301 Utility Plan
 - C-302 Utility Plan
 - C-303 West Side Pump Station Plans, Sections and Notes
 - C-304 West Side Pumping Station Plan, Structural Details and Force Main Details
 - C-501 Sediment and Stormwater Management Plan
 - C-504 Sediment and Stormwater Management – Bioswale 1, 2 and 3 Plan, Profile & Section and Constructed Wetland Section
 - C-505 Sediment and Stormwater Management – Bioswale 4 Plan, Profile & Section, S.W.M. Section & Outlet Structure CB-6 Detail
 - C-506 Sediment and Stormwater Management – Bioretention Plan & Sections and Existing S.W.M. Pond Plan, Section and Details
 - C-601 Entrance Signage and Striping Plan
 - C-602 Entrance Plan
 - C-603 Entrance Details and Sections
 - C-701 Sanitary Sewer Profiles
 - C-902 Construction Details
 - L-103 Landscape Development East and West Parking Areas

I. REVISIONS TO PROJECT MANUAL/SPECIFICATIONS

A. Section 000110 - Table of Contents

1. ADD new Section 321818 – Tennis Court Repair and Resurfacing

B. Section 004100 – Bid Forms

1. DELETE this section in its entirety and INSERT new Section 004100 Bid Form showing the addition of Alternate No. 8 Tennis Court Repair and Resurfacing, annotated Addendum No. 1, dated 27 Jul 12.

C. Section 011100 – Summary of Work

1. Contract A-1 Sitework & Landscaping
 - a. ADD new Section 321818 – Tennis Court Repair and Resurfacing to the list of technical specifications on page 011100-7.

- b. ADD the following sentences to the end of bullet number 1-29:

“Provide and maintain temporary stone dust paths from the emergency doors of the existing high school. The paths shall be 6’ wide and 6” deep. Provide and maintain a temporary access road between the existing west parking lot and the existing roller skating rink. The road is to be constructed of stabilized stone material, crushed concrete or asphalt millings. Road will be 24’ wide and 12” thick. Maintain paths and access road during the duration of construction. See sketches TEMP-001, TEMP-002, & TEMP-003.”

- c. CHANGE the length of temporary fence in bullet number 1-32 from 1,400 to 500 linear feet.
 - d. INSERT the following NEW bullets after bullet number 1.35 on page 011100-10:

“1-35.a This Contractor shall include in the Base Bid the cost of remobilization, cleaning and tack coating the asphalt base course in order to install the asphalt top coat.

“1-35.b ASPHALT CEMENT COST ADJUSTMENT

- Payments to the Contractor shall be adjusted to reflect increase or decreases in the Delaware Posted Asphalt Cement Price when compared to the Project Asphalt Cement Base Price, as defined in these Special Provisions.
- The Delaware Posted Asphalt Cement Price will be issued monthly by the Department and will be the industry price for Asphalt Cement, F.O.B. Philadelphia, Pennsylvania.
- All deviations of the Delaware Posted Asphalt Cement Price from the Project Asphalt Cement Base Price are eligible for cost adjustment. No minimum

increases or decreases or corresponding percentages are required to qualify for cost adjustment.

- Actual quantity of asphalt cement qualifying for any Asphalt Cement Cost Adjustment will be computed on the basis of weight tickets and asphalt percentage from the approved job mix formula.
- For Recycled Hot-Mix the asphalt percentage eligible for cost adjustment shall be only the new asphalt cement added to the mix.
- The Asphalt cement cost adjustment will be calculated on grade PG 64-22 asphalt regardless of the actual grade of asphalt used. The Project Asphalt Cement Base Price for the project will be based on the August 1st price posted on DelDOT's website.
- If the Contractor exceeds the authorized allotted completion time, the price of asphalt cement on the last authorized allotted work day, shall be the prices used for cost adjustment. However, if the industry posted price for asphalt cement goes down, the asphalt cement cost shall be adjusted downward accordingly.

D. Section 012300 - Alternates

1. DELETE paragraph a. under Alternate No. 2: West Parking Lot Addition and insert the following:

"a. Base Bid: No work is required. Provide a 24' wide temporary access road and 12" RCP culvert."

2. INSERT new page 012300-3, showing the addition of Alternate No. 8 – Tennis Court Repair and Resurfacing, annotated Addendum No. 1, dated 27 Jul 12.

E. Section 321818 – Tennis Court Repair and Resurfacing

1. ADD new Section 321818 – Tennis Court Repair and Resurfacing, annotated Addendum No. 1, dated 27 Jul 12.

F. Section 329300 – Landscape Development

1. DELETE paragraphs 1.3 and 1.4 in their entirety and insert the following:

"1.3 ALLOWANCES – NOT USED

2.4 UNIT PRICES - NOT USED"

2. DELETE the 2nd sentence of paragraph 3.3.A in its entirety and insert the following:

"Remove stones over 1" in any dimension and sticks, roots, rubbish and other extraneous matter and legally dispose of them, off Owner's property."

3. DELETE paragraph 3.5.B in its entirety and insert the following:

“B. Remove stem girdling roots and kinked roots, Remove injured roots ~~by~~ by cutting cleanly; do not break.”

II. REVISIONS TO DRAWINGS

- A. **C-001 Preliminary Overall Site Plan Floor Plans** - Drawing revised as indicated on sketches CSK001, CSK002, and CSK003 and included with this addendum.
- B. **C-102 Demolition Plan** - Drawing revised as indicated on sketches CSK034 and TEMP-001 and included with this addendum.
- C. **C-103 Demolition Plan** - Drawing revised as indicated on sketches CSK035, TEMP-002, and TEMP-003 and included with this addendum.
- D. **C-201 Site Plan** - Drawing revised as indicated on sketch CSK004 and included with this addendum.
- E. **C-202 Site Plan** - Drawing revised as indicated on sketch CSK005 and included with this addendum.
- F. **C-300 Overall Sanitary Sewer Plan** - Drawing revised as indicated on sketches CSK006 and CSK007 and included with this addendum.
- G. **C-301 Utility Plan** - Drawing revised as indicated on sketches CSK008 and CSK009 and included with this addendum.
- H. **C-302 Utility Plan** - Drawing revised as indicated on sketches CSK010, CSK011, and CSK012 and included with this addendum.
- I. **C-303 West Side Pump Station Plans, Sections and Notes** - Drawing revised as indicated on sketch CSK031 and included with this addendum.
- J. **C-304 West Side Pumping Station Plan, Structural Details and Force Main Details** - Drawing revised as indicated on sketch CSK032 and included with this addendum.
- K. **C-501 Sediment and Stormwater Management Plan** - Drawing revised as indicated on sketch CSK013 and included with this addendum.
- L. **C-504 Sediment and Stormwater Management – Bioswale 1, 2 and 3 Plan, Profile & Section and Constructed Wetland Section** - Drawing revised as indicated on sketches CSK014 and CSK015 and included with this addendum.

- M. C-505 Sediment and Stormwater Management – Bioswale 4 Plan, Profile & Section, S.W.M. Section & Outlet Structure CB-6 Detail** - Drawing revised as indicated on sketches CSK016, CSK017, CSK018, CSK019, CSK020, CSK021, and CSK022 and included with this addendum.

- N. C-506 Sediment and Stormwater Management – Bioretention Plan & Sections and Existing S.W.M. Pond Plan, Section and Details.** - Drawing revised as indicated on sketches CSK023 and CSK024 and included with this addendum.

- O. C-601 Entrance Signage and Striping Plan** - Drawing revised as indicated on sketches CSK025 and CSK026 and included with this addendum.

- P. C-602 Entrance Plan** - Drawing revised as indicated on sketch CSK027 and included with this addendum.

- Q. C-603 Entrance Details and Sections** - Drawing revised as indicated on sketch CSK028 and included with this addendum.

- R. C-701 Sanitary Sewer Profiles** - Drawing revised as indicated on sketch CSK029 and included with this addendum.

- S. C-902 Construction Details** - Drawing revised as indicated on sketch CSK030 and included with this addendum.

- T. L-103 Landscape Development East and West Parking Areas** - Drawing revised as indicated on sketch CSK033 and included with this addendum.

END OF ADDENDUM NO. 1

CONTRACT A-1 SITEWORK & LANDSCAPING
BID FORM

For Bids Due: _____ To: Polytech School District
823 Walnut Shade Road
Woodside, DE 19980

Name of Bidder: _____

Bidder Address: _____

Contact Name: _____ E-Mail Address: _____

Delaware Business License No.: _____ Taxpayer ID No.: _____

(Other License Nos.): _____

Phone No.: () _____ - _____ Fax No.: () _____ - _____

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

\$ _____ (\$ _____)

ALTERNATES (Bidders must review Section 012300 Alternates for a complete description of alternates)

Alternate No. 1: Multi-Purpose Addition

Add _____ (\$ _____)

Alternate No. 2: West Parking Lot Addition

Add _____ (\$ _____)

Alternate No. 3: Area A - Pavement Repair, Mill and Overlay

Add _____ (\$ _____)

Alternate No. 4: Area B - Pavement Repair

Add _____ (\$ _____)

Alternate No. 5: Area C - Pavement Repair, Mill and Overlay

Add _____ (\$ _____)

Alternate No. 6: Area D - Pavement Repair, Taper Mill Edges and Overlay

Add _____ (\$ _____)

Alternate No. 7: Area E - Pavement Repair, Taper Mill Edges and Overlay

Add _____ (\$ _____)

Alternate No. 8: Tennis Court Repair and Resurfacing

Add _____ (\$ _____)

UNIT PRICES

Unit prices conform to applicable project specification section. Refer to the specifications for a complete description of the following Unit Prices:

	<u>BULK</u>		<u>TRENCH</u>	
	<u>Add</u>	<u>Deduct</u>	<u>Add</u>	<u>Deduct</u>
1. Price per cubic yard for excavation and disposal of unsatisfactory material and furnishing select fill to include placing, compacting and finishing.	_____	_____	_____	_____
			<u>Add</u>	<u>Deduct</u>
2. Price per square foot for 4" concrete sidewalk and stone subbase.			_____	_____
3. Price per linear foot for concrete curb and stone subbase.			_____	_____
4. Price per linear foot for paving joint repair using pave prep or equal			_____	_____
5. Price per square yard for full depth patching of asphalt paving			_____	_____

NOTE: The difference in price between Add and Deduct in the above Unit Prices should not exceed fifteen percent (15%).

I/We acknowledge Addendums numbered _____ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for ninety (90) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid (if required).

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am / We are an Individual / a Partnership / a Corporation

By _____ Trading as _____
(Individual's / General Partner's / Corporate Name)

(State of Corporation)

Business Address: _____

Witness: _____ By: _____
(SEAL) (Authorized Signature)

(Title)
Date: _____

ATTACHMENTS

- Sub-Contractor List
- Non-Collusion Statement
- Bid Bond
- Consent of Surety
- (Others as Required by Project Manuals)

SUBCONTRACTOR LIST

In accordance with Title 29, Chapter 6962 (d)(10)b Delaware Code, the following sub-contractor listing must accompany the bid submittal. The name and address of the sub-contractor must be listed for each category where the bidder intends to use a sub-contractor to perform that category of work. In order to provide full disclosure and acceptance of the bid by the Owner, it is required that bidders list themselves as being the sub-contractor for all categories where he/she is qualified and intends to perform such work.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City & State)</u>
1. Sitework	_____	_____
2. Electrical	_____	_____
3. Plumbing	_____	_____
4. Concrete Curbs & Sidewalks	_____	_____
5. Fencing	_____	_____
6. Landscaping	_____	_____
7. Tennis Court Repairs & Resurfacing	_____	_____

NON-COLLUSION STATEMENT

This is to certify that the undersigned bidder has neither directly nor indirectly, entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this proposal submitted this date

All the terms and conditions of **A-1 Sitework & Landscaping** have been thoroughly examined and are understood.

NAME OF BIDDER: _____

AUTHORIZED REPRESENTATIVE
(TYPED): _____

AUTHORIZED REPRESENTATIVE
(SIGNATURE): _____

TITLE: _____

ADDRESS OF BIDDER: _____

PHONE NUMBER: _____

Sworn to and Subscribed before me this _____ day of _____ 20_____.

My Commission expires _____ NOTARY PUBLIC _____.

THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.

BID BOND

TO ACCOMPANY PROPOSAL
(Not necessary if security is used)

KNOW ALL MEN BY THESE PRESENTS That: _____ of _____
_____ in the County of _____ and State of _____
_____ as Principal, and _____ of _____ in
the County of _____ and State of _____ as Surety,
legally authorized to do business in the State of Delaware (“State”), are held and firmly unto the **Polytech School District** in the sum of _____ Dollars (\$ _____), or
percent not to exceed _____ Dollars
(S _____) of amount of bid on Contract No. **A-1 Sitework & Landscaping** to be paid to
the **Polytech School District** for the use and benefit of the **Polytech School District** for which payment
well and truly to be made, we do bind ourselves, our and each of our heirs, executors, administrators.
and successors, jointly and severally for and in the whole firmly by these presents.

NOW THE CONDITION OF THIS OBLIGATION IS SUCH That if the above bounden Principal who has
submitted to the **Polytech School District** a certain proposal to enter into this contract for the furnishing
of certain material and/or services within the State, shall be awarded this Contract, and if said Principal
shall well and truly enter into and execute this Contract as may be required by the terms of this Contract
and approved by the **Polytech School District** this Contract to be entered into within twenty days after
the date of official notice of the award thereof in accordance with the terms of said proposal, then this
obligation shall be void or else to be and remain in full force and virtue.

Sealed with _____ seal and dated this ___ day of _____ in the year of our Lord
two thousand and _____ (20__).

SEALED, AND DELIVERED IN THE PRESENCE OF

Name of Bidder (Organization)

Corporate
Seal

By: _____
Authorized Signature

Attest _____

Title

Witness _____

Name of Surety

Title

CONSENT OF SURETY

DATE _____

To:

Gentlemen:

We, the _____

(Surety Company's Address)

a Surety Company authorized to do business in the State of Delaware hereby agrees that if

(Contractor)

(Address)

is awarded the Contract No. _____

We will write the required Performance and/or Labor and Material Bond required by Paragraph 9 of the Instructions to Bidders.

(Surety Company)

By

(Attorney-in-Fact)

END OF SECTION

Alternate No. 8: Tennis Court Repairs and Resurfacing

- a. **Base Bid: No work is required.**
- b. **Alternate: Includes but is not limited to, temporary removal of nets and tie-downs and securely storing during the work; cleaning courts to be free of grease, oil, dust, dirt, vegetation and other foreign matter; repair of all cracks per the plans and specifications; resurfacing of the court surface per the plans and specifications; protection of adjacent areas and structures (fences, posts, sidewalks, etc.) that are not to be coated; protection of new repairs and surfaces during curing periods; installation of new court striping per USTA and project specifications; final cleaning and removal of all construction debris, waste etc; and reinstallation of nets and tie-downs.**

END OF SECTION

SECTION 321818 – TENNIS COURT REPAIR AND RESURFACING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Repair of cracks. Cracks 1/4" or larger in width shall be repaired using Riteway Crack Repair System. Approximately 1200 l.f. in quantity. Cracks smaller than 1/4" in width shall be filled with Nova Caulk.
 - 2. Resurfacing of existing tennis courts with all-weather resilient acrylic surface system and new striping.

1.3 SUBMITTALS

- A. Product Data: For material indicated, along with test data from an independent testing lab. Test results for weatherometer test, flexibility test and water resistance test.
- B. Samples for Verification: For each type and color of material required.
- C. Product Certificates: Signed by manufacturers of tennis surface certifying that products furnished comply with requirements and are suitable for the use indicated.
- D. Qualification Data: For firms and persons specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced, certified, and approved factory trained installer who is specialized in installing similar tennis court installations in material, design, and extent to those indicated for this Project and whose work has resulted in a record of successful in-service performance shall be used.

1. Installers: Subject to compliance with requirements, available installers offering services that may be incorporated into the Work include, but are not limited to, the following:
 - a. American Athletic Courts, Inc.

- B. Acceptance Test: Prior to application of a color finish system, the court surface shall be flooded with water and allowed to drain for one hour at 70 degrees. There shall be no ponding or bird bath areas on the tennis courts deeper than a U.S. nickel laid flat. Any ponding or bird bath areas not meeting this requirement shall be patched and leveled by the Contractor. Reflood and patch until “birdbaths” are eliminated.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to Project site in original unopened containers or bundles with labels indicating manufacturer, product name and designation.
- B. Store and handle materials to comply with manufacturer's written instructions to prevent their deterioration or damage due to moisture, high or low temperatures, contaminants, or other causes.

1.6 PROJECT CONDITIONS

- A. Weather Limitations: Riteway Crack Repair System.: Surface must be dry. Do not apply when temperature is below 60 deg F or when temperature is above 100 deg F). Novacrylic Surfacing System: Surface must be dry. Do not apply when temperature is below 50 deg F or when temperature is above 140 deg F). Do not apply coatings when rain is imminent.
- B. Drainage: The areas adjacent to the tennis courts shall be graded to drain surface water away from the stone and asphalt base. Subsurface drainage shall provide for a free flow of subsurface moisture away from the stone base.

1.7 WARRANTY

- A. Cracks repaired using the Riteway Crack Repair system (approx. 1200 l.f.) shall be warranted against defects in workmanship and materials for a period of two (2) years. The contractor shall repair or replace defective surface at no cost to the owner. Excluded from the warranty are new cracks developing after the completion of the project, cracks repaired using caulk (cracks smaller than 1/4” in width), defects caused by faulty design, acts of God, improper maintenance, abuse, and uses other than those set forth above. The owner is required to maintain the facility in accordance with the maintenance instructions which are provided with the warranty. Warranty shall be in the form of a Performance Bond.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

A. Tennis Court Surfacing Materials shall be:

1. Novacrylic® , as manufactured by Nova Sports U.S.A., 6 Industrial Rd., Bldg. #2., Milford, MA 01757. 800-USA-NOVA or approved equal.
2. All coatings shall be pure acrylic, containing no asphaltic or tar emulsions, nor any vinyl, alkyd or non-acrylic resins. The color system shall be factory-mixed compounds requiring only the addition of water at the jobsite except for the addition of sand to Novasurface® . All materials shall be delivered to the jobsite in sealed containers with the manufacturer's label affixed.
3. Line paint shall be factory-compound product compatible with asphalt. White line paint shall be American Tennis Courts or approved equal Latexite Acrylic Line Paint. Use undiluted for painting of playing lines.

B. Crack repair materials for cracks 1/4" or larger in width shall be:

1. Riteway Crack Repair System® , as manufactured by Riteway Tennis Products, 24 Spring Street, West Haven, CT 06516. 877-5-RITEWAY or approved equal.

C. Crack repair materials for cracks smaller than 1/4" in width shall be:

1. Nova Caulk® , as manufactured by as manufactured by Nova Sports U.S.A., 6 Industrial Rd., Bldg. #2., Milford, MA 01757. 800-USA-NOVA or approved equal.
2. Caulk backer rod or clean sand

D. Herbicide Treatment: Commercial chemical for weed control, registered by Environmental Protection Agency and approved by the State of Delaware. Provide liquid or powder form.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine courts with Installer present, to determine cracks to receive Riteway system and cracks to receive Nova Caulk and for compliance with requirements for installation tolerances, and other conditions affecting tennis court surface performance.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 CONSTRUCTION PREPARATION

- A. The court surface shall be inspected and made sure to be free of grease, oil, dust, dirt and other foreign matter before starting work.

- B. Temporarily remove nets and tie downs and store during the repair and resurfacing of the courts.

3.3 INSTALLATION: CRACK REPAIR CAULK

- A. Contractors must notify the Architect/Engineer of all applications, 48 hours prior to installation. The surface to be repaired shall be inspected and made sure to be free of grease, oil, dust, dirt, vegetation and other foreign matter before starting work.
- B. Clean out cracks, making it free of dirt and debris. Apply herbicide to any vegetation existing in cracks.
- C. Install backer rod (must be wider than crack) into crack, top of rod 3/16" below surface or fill crack with clean sand to within 3/16" of surface.
- D. Using a broad knife, squeegee rubber, or similar tool, fill crack to refusal with Novacaulk #1. It is important to exert some pressure when placing the Novacaulk into the void so that the material comes in contact with the walls of the crack.
- E. Allow the Novacaulk to set. (4 hours during ideal drying conditions - longer when damp or cool).
- F. Apply a coat of Novacaulk #2 over the crack. This coat should be thicker directly over the crack and taper to a feather edge. This application should be wider than the actual crack by 3 to 6 inches on both sides. Extremely wide cracks may need a second application of Novacaulk #2 and probably the repair should extend further out to the side. Novacaulk #2 is easily spread with a squeegee when first placed on the pavement. If, after a few minutes, it becomes difficult to spread smoothly, sprinkle a few drops of water over the repair. This will make the material easier to smooth.
- G. Allow repair to dry and Acrylic Resurfacing System.

3.4 INSTALLATION: CRACK REPAIR SYSTEM

- A. Contractors must notify the Architect/Engineer of all applications, 48 hours prior to installation. The surface to be repaired shall be inspected and made sure to be free of grease, oil, dust, dirt, vegetation and other foreign matter before starting work.
- B. Clean out cracks, making it free of dirt and debris. Apply herbicide to any vegetation existing in cracks.
- C. Crack to be filled from bottom to top with court patch binder or cement and let dry.
- D. Filled crack must be scraped or buffed flush with court and cleaned, broomed and blown.

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- E. Apply Riteway Crack Repair System, centering the first layer Riteway Microsealant tape over filled crack.
- F. Apply Liquid Acrylic and Latex Binding formula (50/50) over Microsealant Tape. Apply second layer 20” stress mat centered over first layer saturating with binding formula.
- G. Apply binding edge, the third layer of the Riteway Crack Repair System, centered over stress mat edge. Let dry.
- H. When dry, apply Acrylic Resurfacing System.

3.5 INSTALLATION: ACRYLIC RESURFACING SYSTEM

- A. Contractors must notify the Architect/Engineer of all applications, 48 hours prior to installation. The surface to be coated shall be inspected and made sure to be free of grease, oil, dust, dirt, vegetation and other foreign matter before starting work.
- B. The surface shall be flooded. Any ponding water remaining that is deep enough to cover the thickness of a five-cent piece shall be corrected using a patch mix consisting of Novabond® , 50-mesh sand and Portland cement, as per manufacturers directions. Depressions must be primed with a 50% dilution of Novabond® and water prior to patching.
- C. Application shall proceed only if the surface is dry and clean and the temperature is at least fifty degrees (50°F) and rising, and the surface temperature is not in excess of one hundred forty degrees (140°F). Do not apply coatings when rain is imminent.
- D. Each coat in this system must dry completely before next application. Between each coat, inspect entire surface. Any defects should be repaired. Scrape surface to remove any lumps, and broom or blow off all loose matter.
- E. Using a neoprene rubber squeegee, apply two (2) coat of Novasurface® acrylic resurfacer, diluted with one (1) part clean water to two (2) parts Novasurface® . Clean, bagged sand shall be incorporated into the diluted Novasurface® at the rate of five (5) to ten (10) Lbs. per gallon. Sand gradation shall be 50 to 60-mesh. Allow application to dry thoroughly.
- F. Using a neoprene rubber squeegee, apply two (2) coats of Nova Combination color® , diluted two (2) parts concentrated material to one (1) part clean water (colors to be designated by owner). Allow each application to dry thoroughly. The quantity of water used in diluting these coatings may exceed the quantity specified by only a small amount and only if coatings are drying too rapidly. Permission of the owner shall be obtained before adding additional water.

3.6 LINE PAINTING

- A. Upon completion and acceptance of the tennis surface, this Contractor shall prepare and paint lines for tennis.

- B. All lines are to be applied by painting between masking tape with a paintbrush or roller, according to U.S.T.A specifications.
- C. Paint lines with Novatex® textured line paint. Allow application to dry.
- D. Remove masking tape immediately after lines are dry.
- E. Protect adjacent areas and structures (fences, posts, sidewalks, buildings, etc.), which are not to be coated. In the event that coatings are applied to above, remove immediately before drying is complete.

3.7 PROTECTION

- A. Protect tennis court surface during and after curing period from contact with contaminating substances and from damage resulting from construction operations or other causes so track surfaces are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated tennis court surface immediately so installations with repaired areas are indistinguishable from the original work.

3.8 CLEANING

- A. Clean off excess material as the Work progresses by methods and with cleaning materials approved by manufacturers of joint sealants and of products in which joints occur. Upon completion remove all containers, debris, etc. and leave the site in acceptable condition.

3.9 COMPLETION

- A. Contractor shall reinstall nets and tie downs.
- B. Upon completion, the contractor shall insure proper removal of all construction debris, surplus materials, empty containers and wash water, and shall leave the site in a condition acceptable to the owner. The court is to be left secure so as to prevent vandalism.

END OF SECTION 321818

17. CONTRACTOR SHALL REFER TO ARCHITECTURAL/STRUCTURAL DRAWINGS OF PROPOSED STRUCTURES FOR ALL DIMENSIONS OF BUILDINGS AND FOUNDATIONS. PROPOSED BUILDING FOOTPRINTS, AS SHOWN ON SITE PLAN, SHOULD ONLY BE USED AS A REFERENCE TO THE ABOVE MENTIONED PLANS.
18. IF THE APPROVED PLAN NEEDS TO MODIFIED DUE TO ERRORS OR OMISSIONS OR FIELD CONDITIONS, ADDITIONAL SEDIMENT AND STORM WATER CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY THE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL (DNREC).
19. THE DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL (DNREC) RESERVES THE RIGHT TO ENTER PRIVATE PROPERTY FOR PURPOSES OF PERIODIC SITE INSPECTION.
20. THESE STRUCTURE(S) WILL BE PROTECTED BY AUTOMATIC SPRINKLERS IN ACCORDANCE WITH NFPA 13.
21. WATER FLOW TEST RESULTS: 1,020 GPM, STATIC PSI = 54, RESIDUAL PSI = 50, SYSTEM REQ. 593 GPM.
22. LOCK BOX REQUIRED, CONTACT LOCAL FIRE CHIEF FOR ORDERING INFORMATION AND LOCATION OF BOX ON THE BUILDING.
23. BUILDINGS SHALL HAVE STANDPIPES INSTALLED IN ACCORDANCE WITH THE DELAWARE STATE FIRE PREVENTION REGULATIONS AND NFPA 14.
24. THE PROPOSED BUILDING SHALL MEET THE LARGE AREA BUILDING REQUIREMENTS OF DSFPR REGULATION 702, CHAPTER 9, SECTION 3.
25. THIS PLAN SUPERCEDES IN PART THE PREVIOUSLY RECORDED PLANS OF POLYTECH HIGH SCHOOL WHICH WAS RECORDED ON JULY 20, 2011 IN PLOT BOOK 114, PAGE 27 AND ALSO THE PLAN RECORDED MAY 18, 2002 IN PLOT BOOK 30, PAGE 12 AND ALSO THE PLAN OF POLYTECH EDUCATION CENTER, RECORDED ON JULY 31, 1996 IN PLOT BOOK 38, PAGE 10 AND THE PLAN OF POLYTECH HIGH SCHOOL, RECORDED ON MAY 5, 1991 IN PLOT BOOK 28, PAGE 8. THESE PLANS WERE RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS FOR KENT COUNTY.
26. POLYTECH HIGH SCHOOL AGREES TO REPAIR ANY DAMAGE OR RUTTING CAUSED BY KENT COUNTY PUBLIC WORKS MAINTENANCE VEHICLES ACCESSING THE NORTH PUMP STATION.

OWNERS CERTIFICATION

WE, KENT VOCATIONAL TECHNICAL SCHOOL DISTRICT, HEREBY CERTIFY THAT WE ARE THE OWNER OF THE PROPERTY DESCRIBED AND SHOWN ON THIS PLAN, THAT THE PLAN WAS MADE AT OUR DIRECTION, AND THAT WE ACKNOWLEDGE THE SAME TO BE OUR ACT AND DESIRE THE PLAN TO BE DEVELOPED AS SHOWN IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS.

SIGNATURE

DATE

WETLANDS CERTIFICATION

I, JAMES C. MCCULLEY IV, HEREBY CERTIFY THAT THE PROJECT AREA HAS BEEN EVALUATED FOR THE PRESENCE OF FEDERALLY REGULATED WETLANDS IN GENERAL ACCORDANCE WITH THE U.S. ARMY CORPS OF ENGINEERS 1987 WETLAND DELINEATION MANUAL AND ASSOCIATED GUIDANCE DOCUMENTS AND LETTERS. BASED UPON THE REVIEW OF THE AREA AND THE JURISDICTIONAL DETERMINATION BY THE (USACE), NO JURISDICTIONAL WETLANDS EXIST WITHIN THE PROPOSED PROJECT AREA.

JAMES C. MCCULLEY IV

DATE

ENGINEERS CERTIFICATION

I, J. MICHAEL RIEMANN, HEREBY CERTIFY THAT I AM A REGISTERED ENGINEER IN THE STATE OF DELAWARE, THAT THE INFORMATION SHOWN HEREON HAS BEEN PREPARED UNDER MY SUPERVISION AND TO MY BEST KNOWLEDGE AND BELIEF REPRESENTS GOOD ENGINEERING PRACTICES AS REQUIRED BY THE APPLICABLE LAWS OF THE STATE OF DELAWARE.

J. MICHAEL RIEMANN

P.E. NO. 13722

DATE

REFERENCE SHEET C-001

LAYER STATE: C-001

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 1**

WOODSIDE
KENT COUNTY, DELAWARE



**BECKER
MORGAN
GROUP**

ARCHITECTURE
ENGINEERING
Dover, DE

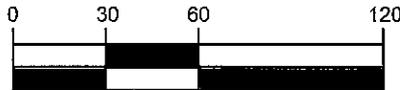
309 S. Governors Ave.
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Fax 302.734.7965

BMG: 2011081.00
SCALE: 1" = 60'
DATE: 7-27-12
DRAWN BY: M.J.H.

CSK001

SHEET TITLE

PRELIMINARY OVERALL SITE PLAN S-96-01 (REVISED)



SCALE : 1" = 60'

ISSUE BLOCK

11	7-27-12	ADDENDUM 1	
10	7-17-12	DNREC, DELDOT FINAL KENT COUNTY COMMENT REVISIONS	
9	7-9-12	BID PAC A	
8	6-28-12	DNREC, DELDOT COMMENT REVISIONS	
7	6-21-12	KENT COUNTY COMMENT REVISIONS	
6	6-8-12	95% CD SUBMISSION	
5	5-31-12	DNREC, KENT COUNTY, FIRE MARSHAL COMMENT REVISIONS	
4	5-16-12	DD SUBMISSION	
3	5-14-12	DELDOT COMMENT REVISIONS	
2	3-7-12	CD SUBMISSIONS - DNREC, DELDOT, KENT COUNTY, FIRE MARSHAL	
1	2-8-12	SD SUBMISSION	

MARK	DATE	DESCRIPTION
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LAYER STATE: C-001

PROJECT NO.: 2011081.00

DATE: 12/14/2011

SCALE: 1"=60'

DRAWN BY: J.M.R. PROJ. MGR.: J.M.R.

SHEET

C-001

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REFERENCE SHEET C-001

LAYER STATE: C-001

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 1**

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KENT COUNTY, DELAWARE



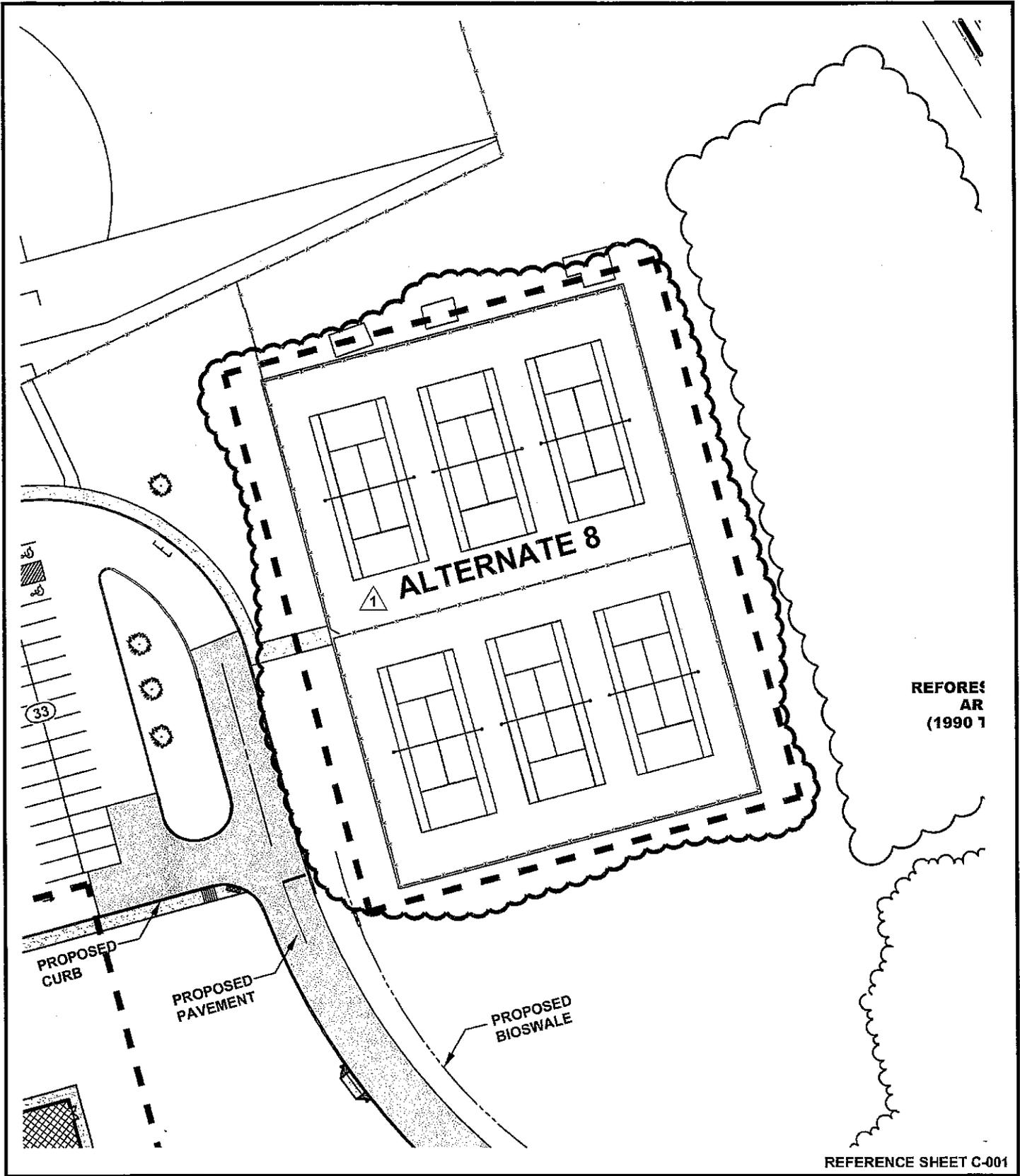
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CSK002



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REFERENCE SHEET C-001

LAYERSTATE: C-001

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 1**

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CSK003

GENERAL CONSTRUCTION NOTES

- G-1 INSTALL P.C.C. CURB (DELDOT TYPE 1-6). SEE DETAIL, SHEET C-901.
- G-2 TRANSITION FROM INTEGRAL P.C.C. CURB & GUTTER - TYPE 3-6 TO P.C.C. CURB TYPE 1-6 AT P.T. OF RADIUS.
- G-3 INSTALL 4" THICK CONCRETE SIDEWALK. SEE SITE PLAN FOR WIDTHS, SEE DETAIL, SHEET C-901.
- G-4 CONSTRUCT HANDICAPPED CURB RAMP (12:1 MAXIMUM SLOPE), SEE DETAIL, SHEET C-901.
- G-5 INSTALL BITUMINOUS PAVEMENT, SEE PAVEMENT LEGEND SHEET C-203 AND PAVEMENT SECTION DETAILS, SHEET C-901
- G-6 INSTALL 8" THICK CONCRETE LOADING PAD SCORED IN 10' SQUARES. PER DETAIL, SHEET C-901.
- G-7 INSTALL 4" THICK PATTERNED CONCRETE PLAZA SIDEWALK. SEE DETAIL, SHEET C-904.
- G-8 INSTALL KNOX BOX AT PIPE GATE FOR FIRE DEPARTMENT ACCESS.
- G-9 INSTALL 8' x 8' WIDE LANDSCAPE MATERIAL STORAGE BINS. SEE ARCHITECTURAL PLANS FOR DETAILS.
- G-10 INSTALL 2' WIDE LANDSCAPE STONE AS SHOWN. STONE TYPE TO BE PER OWNERS REQUIREMENTS.
- G-11 INSTALL STEEL PIPE GATE. SEE DETAIL, SHEET C-901.
- G-12 INSTALL FENCE. FENCE TO MATCH EXISTING. PROVIDE 12' WIDE DOUBLE GATE AT LOCATION SHOWN, FOR MAINTENANCE ACCESS.
- G-13 PROPOSED WALL. SEE ARCHITECTURAL PLANS FOR DETAIL.
- G-14 DEPRESS CURB ACROSS VEHICLE PAD FOR VEHICLE ACCESS.
- G-15 INSTALL BITUMINOUS PAVEMENT OVERLAY AFTER SEALING ALL CRACKS WITH PAVEPREP.
- G-16 INSTALL 4" THICK CONCRETE SIDEWALK PER DELDOT STANDARDS. SEE SHEET C-602.
- G-17 INSTALL INTEGRAL P.C.C. CURB & GUTTER - TYPE 3-8 PER DELDOT STANDARDS. SEE SHEET C-602.
- G-18 CONSTRUCT HANDICAPPED CURB RAMP PER DELDOT STANDARDS SEE SHEET C-602.
- G-19 TAPER END OF CURB DOWN TO GRADE. SEE DETAIL, SHEET C-901.
- G-20 INSTALL 8" THICK CONCRETE FIRE LANE IN LOCATION SHOWN. SEE DETAIL, SHEET C-904.
- G-21 INSTALL (2) 3" DIA. STEEL POSTS WITH HEAVY DUTY CHAIN FOR ACCESS PREVENTION. SEE DETAIL, SHEET C-901.
- G-22 INSTALL ADA HANDRAILS ON ACCESSIBLE RAMP. SEE DETAIL, SHEET C-904.
- G-23 INSTALL (2) STAIRS. RISER HEIGHT IS 6", TREAD LENGTH IS 1'-0". STAIRS TO HAVE HANDRAIL AT BOTH SIDES AND SPACED AT 5'-0" O.C. INTERVALS. 5 REQUIRED. SEE HANDRAIL DETAIL, SHEET C-904
- G-24 INSTALL FULL DEPTH BITUMINOUS PAVEMENT TRENCH REPAIR PATCH.
- G-25 REPAIR CHAIN LINK FENCE IN KIND AFTER INSTALLATION OF STORM DRAIN PIPE.
- G-26 INSTALL CURB OPENING. SEE DETAIL, SHEET C-903.
- G-27 INSTALL CURB OPENING THROUGH ISLAND. SEE DETAIL, SHEET C-903.
- G-28 INSTALL 8" THICK x 9' W x 26' L CONCRETE HVAC EQUIPMENT PAD FOR CHILLER UNIT. SEE CHILLER PAD DETAIL, SHEET C-901.
- G-29 INSTALL 4" THICK, 5' W x 12' L CONCRETE DRIVEWAY MAINTENANCE ACCESS APRON. DEPRESS CURB AT APRON LOCATION. SLOPE SURROUNDING GRADE TO APRON. SEE MAINTENANCE ACCESS APRON DETAIL, SHEET C-903.
- G-30 INSTALL 6' WIDE HANDICAPPED RAMP WITH HANDRAILS AND CONCRETE CURB. SEE SHEET C-401/402 FOR ELEVATIONS.
- G-31 INSTALL 4'x 4' x4" THICK CONCRETE PAD FOR HVAC UNIT.
- G-32 INSTALL 8'-2.5" DIA., 4" THICK CONCRETE PAD FOR PRACTICE DISCUS/SHOTPUT THROWING AREA.
- G-33 INSTALL NEW FLAG POLES. SEE DETAIL, SHEET C-901.
- G-34 INSTALL ROTC PHYSICAL FITNESS EQUIPMENT, PUSH UP BARS, UNEVEN BARS, AND PULLUP BARS BY OUTDOOR-FITNESS OR EQUIVALENT. INSTALL IN BED OF SHREDDED MULCH (6" DEEP) BORDERED WITH RECYCLED PLASTIC BORDER TIMBERS 4" X 8" SECTIONS BY MANSION ATHLETICS OR EQUIVALENT.
- G-35  EXISTING TENNIS COURTS TO BE RESURFACED. CLEAN AND PREPARE CRACKS FOR REPAIR, REPAIR CRACKS USING "RITEWAY REPAIR SYSTEM" OR EQUAL, APPLY TWO COATS OF "NOVA SURFACE ACRYLIC RESURFACER" OR EQUAL, APPLY TWO COATS OF "NOVA COMBINATION COLOR" OR EQUAL TO EXISTING COURTS AND APPLY NEW STRIPING PER USTA GUIDELINES. SEE SPECIFICATIONS ***ALTERNATE 3***
- G-36 INSTALL P.C.C. CURB (DELDOT TYPE 2). SEE DETAIL, SHEET C-901.
- G-37 TRANSITION FROM P.C.C. CURB - TYPE 2 TO P.C.C. CURB TYPE 1-6.
- G-38 INSTALL P.C.C. CURB (DELDOT TYPE 1-6) AND 4" THICK CONCRETE SIDEWALK. DEPRESS BOTH ACROSS ENTRANCE.
- G-39 INSTALL 6" DIA. STEEL BOLLARD FILLED SOLID WITH CONCRETE. PAINT SAFETY YELLOW. SEE DETAIL, SHEET C-901.
- G-40 INSTALL PUMP STATION DRIVEWAY. SEE PAVEMENT SECTION DETAIL, SHEET C-304.
- G-41 4' WIDE CURB OPENING FOR DRAINAGE. SEE DETAIL, SHEET C-903.

REFERENCE SHEET C-201

LAYER STATE: C-201

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 1**

WOODSIDE
KENT COUNTY, DELAWARE



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CSK004

GENERAL CONSTRUCTION NOTES

- G-1** INSTALL P.C.C. CURB (DELDOT TYPE 1-6). SEE DETAIL, SHEET C-901.
- G-2** TRANSITION FROM INTEGRAL P.C.C. CURB & GUTTER - TYPE 3-6 TO P.C.C. CURB TYPE 1-6 AT P.T. OF RADIUS.
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- G-7** INSTALL 4" THICK PATTERNED CONCRETE PLAZA SIDEWALK. SEE DETAIL, SHEET C-904.
- G-8** INSTALL KNOX BOX AT PIPE GATE FOR FIRE DEPARTMENT ACCESS.
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- G-11** INSTALL STEEL PIPE GATE. SEE DETAIL, SHEET C-901.
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- G-13** PROPOSED WALL. SEE ARCHITECTURAL PLANS FOR DETAIL.
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- G-18** CONSTRUCT HANDICAPPED CURB RAMP PER DELDOT STANDARDS SEE SHEET C-602.
- G-19** TAPER END OF CURB DOWN TO GRADE. SEE DETAIL, SHEET C-901.
- G-20** INSTALL 8" THICK CONCRETE FIRE LANE IN LOCATION SHOWN. SEE DETAIL, SHEET C-904.
- G-21** INSTALL (2) 3" DIA. STEEL POSTS WITH HEAVY DUTY CHAIN FOR ACCESS PREVENTION. SEE DETAIL, SHEET C-901.
- G-22** INSTALL ADA HANDRAILS ON ACCESSIBLE RAMP. SEE DETAIL, SHEET C-904.
- G-23** INSTALL (2) STAIRS. RISER HEIGHT IS 6", TREAD LENGTH IS 1'-0". STAIRS TO HAVE HANDRAIL AT BOTH SIDES AND SPACED AT 5'-0" O.C. INTERVALS. 5 REQUIRED. SEE HANDRAIL DETAIL, SHEET C-904
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- G-25** REPAIR CHAIN LINK FENCE IN KIND AFTER INSTALLATION OF STORM DRAIN PIPE.
- G-26** INSTALL CURB OPENING. SEE DETAIL, SHEET C-903.
- G-27** INSTALL CURB OPENING THROUGH ISLAND. SEE DETAIL, SHEET C-903.
- G-28** INSTALL 8" THICK x 9' W x 26' L CONCRETE HVAC EQUIPMENT PAD FOR CHILLER UNIT. SEE CHILLER PAD DETAIL, SHEET C-901.
- G-29** INSTALL 4" THICK, 5' W x 12' L CONCRETE DRIVEWAY MAINTENANCE ACCESS APRON. DEPRESS CURB AT APRON LOCATION. SLOPE SURROUNDING GRADE TO APRON. SEE MAINTENANCE ACCESS APRON DETAIL, SHEET C-903.
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- G-34** INSTALL ROTC PHYSICAL FITNESS EQUIPMENT, PUSH UP BARS, UNEVEN BARS, AND PULLUP BARS BY OUTDOOR-FITNESS OR EQUIVALENT. INSTALL IN BED OF SHREDDED MULCH (6" DEEP) BORDERED WITH RECYCLED PLASTIC BORDER TIMBERS IN 8' SECTIONS BY MANSION ATHLETICS OR EQUIVALENT
- G-35**  EXISTING TENNIS COURTS TO BE RESURFACED. CLEAN AND PREPARE CRACKS FOR REPAIR, REPAIR CRACKS USING "RITWAY REPAIR SYSTEM" OR EQUAL, APPLY TWO COATS OF "NOVA SURFACE ACRYLIC RESURFACER" OR EQUAL, APPLY TWO COATS OF "NOVA COMBINATION COLOR" OR EQUAL TO EXISTING COURTS AND APPLY NEW STRIPING PER USTA GUIDELINES. SEE SPECIFICATIONS ***ALTERNATE 8***
- G-36** INSTALL P.C.C. CURB (DELDOT TYPE 2). SEE DETAIL, SHEET C-901.
- G-37** TRANSITION FROM P.C.C. CURB - TYPE 2 TO P.C.C. CURB TYPE 1-6.
- G-38** INSTALL P.C.C. CURB (DELDOT TYPE 1-6) AND 4" THICK CONCRETE SIDEWALK. DEPRESS BOTH ACROSS ENTRANCE.
- G-39** INSTALL 6" DIA. STEEL BOLLARD FILLED SOLID WITH CONCRETE. PAINT SAFETY YELLOW. SEE DETAIL, SHEET C-901.
- G-40** INSTALL PUMP STATION DRIVEWAY. SEE PAVEMENT SECTION DETAIL, SHEET C-304.
- G-41** 4' WIDE CURB OPENING FOR DRAINAGE. SEE DETAIL, SHEET C-903.

REFERENCE SHEET C-202

LAYER STATE: C-202

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 1**

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CSK005

SANITARY SEWER MANHOLE SCHEDULE							
MH NO.	RIM EL.	DIA.	DEPTH	INV. IN	INV. IN	INV. IN	INV. OUT
1*	51.50'	60"	7.21'	-	47.46'	44.34'	44.29'
2	53.40'	48"	4.69'	-	-	48.81'	48.71'
3	52.92'	48"	8.39'	-	-	44.58'	44.53'
4*	53.30'	60"	8.06'	-	49.77'	45.26'	45.24'
5	52.40'	48"	6.87'	-	45.63'	45.58'	45.53'
6	54.40'	48"	7.29'	-	-	47.16'	47.11'
7	53.70'	48"	7.50'	-	-	46.25'	46.20'
8	54.20'	48"	7.60'	-	46.70'	46.70'	46.60'
9*	54.00'	60"	7.45'	49.03'	50.96'	46.65'	46.55'
10	54.30'	48"	7.48'	-	-	47.94'	46.82'

* DROP MANHOLE

SANITARY SEWER PIPE SCHEDULE						
PIPE No.	SIZE	PIPE TYPE	LENGTH	SLOPE	INV. IN	INV. OUT
SS-1	8"	PVC SDR 35	371'	0.30%	44.29'	43.17'
SS-2	8"	PVC SDR 35	251'	0.50%	48.71'	47.46'
SS-3	8"	PVC SDR 35	18'	0.40%	48.88'	48.81'
SS-4	8"	PVC SDR 35	62'	0.30%	44.53'	44.34'
SS-5	8"	PVC SDR 35	219'	0.30%	45.24'	44.58'
SS-6	8"	PVC SDR 35	91'	0.30%	45.53'	45.26'
SS-7	8"	PVC SDR 35	319'	0.46%	47.11'	45.63'
SS-8	8"	PVC SDR 35	43'	0.46%	47.36'	47.16'
SS-9	8"	PVC SDR 35	207'	0.30%	46.20'	45.58'
SS-10	8"	PVC SDR 35	115'	0.30%	46.60'	46.25'
SS-11	8"	PVC SDR 35	75'	0.35%	46.98'	46.70'
SS-12	8"	PVC SDR 35	132'	0.70%	47.63'	46.70'
SS-13	6"	PVC SDR 35	27'	1.04%	50.05'	49.77'
SS-14	8"	CLASS 52 DUCTILE IRON	55'	0.30%	46.82'	46.65'
SS-15	4"	PVC SDR 35	64'	2.08%	52.29'	50.96'
SS-16	6"	PVC SDR 35	48'	1.04%	49.53'	49.03'
SS-17	8"	PVC SDR 35	6'	0.83%	46.55'	46.50'
SS-18	6"	PVC SDR 35	17'	2.08%	44.08'	43.73'

REFERENCE SHEET C-300

LAYERSTATE: C-300

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 1**
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KENT COUNTY, DELAWARE

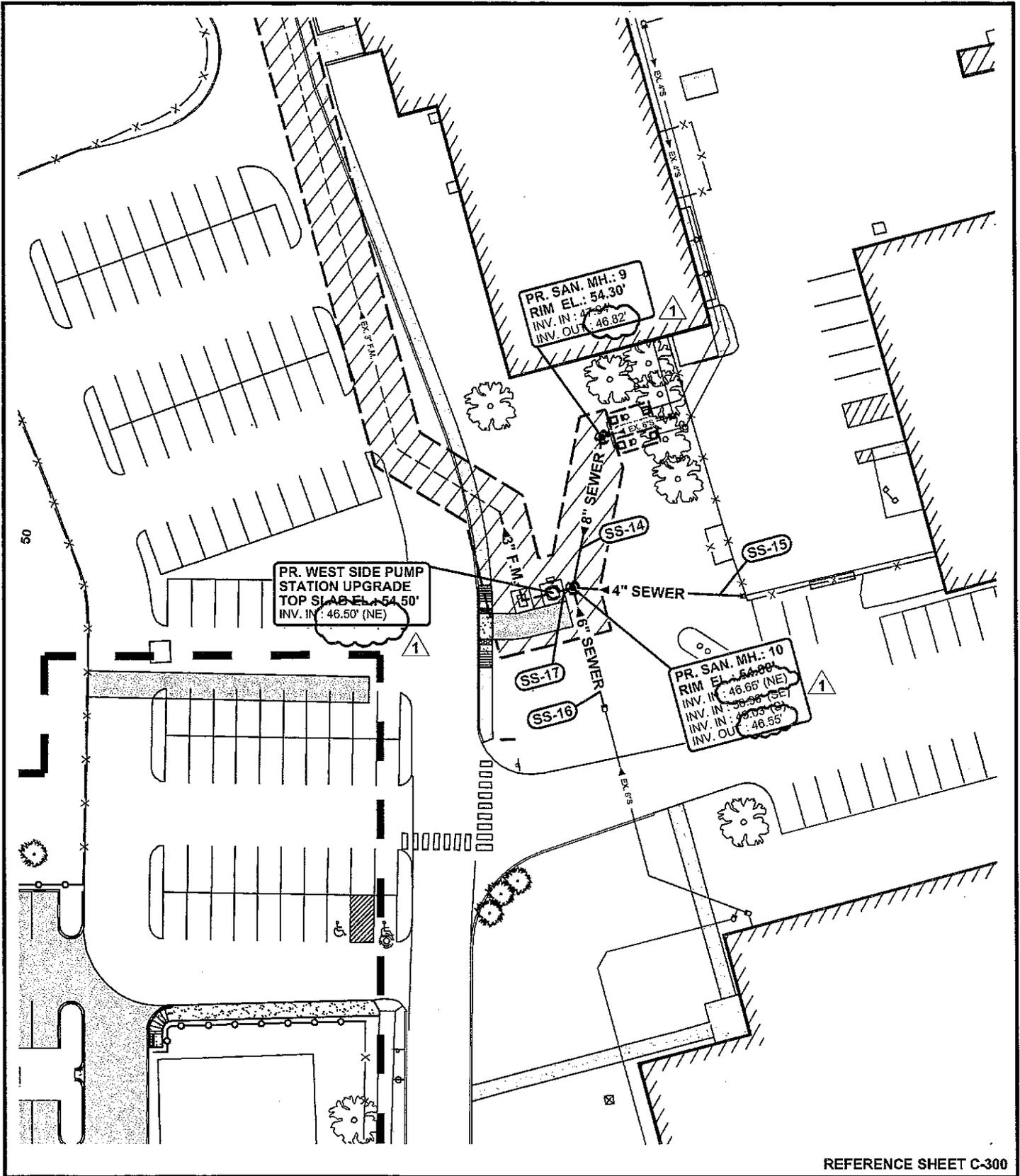


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CSK006



REFERENCE SHEET C-300

LAYER STATE: C-300

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 1**

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CSK007

SANITARY SEWER CONSTRUCTION NOTES

- S-1 INSTALL 8" SANITARY SEWER MAIN. SEE SANITARY SEWER PIPE SCHEDULE, THIS SHEET.
- S-2 INSTALL SANITARY SEWER MANHOLE WITH FRAME AND COVER AT THE INVERTS AND ELEVATIONS SHOWN HEREON (typ.). SEE SANITARY SEWER MANHOLE SCHEDULE, THIS SHEET AND DETAILS, SHEET C-902.
- S-3 CONNECT PROPOSED 8" SANITARY SEWER TO SANITARY SEWER BY OTHERS.
- S-4 INSTALL A 6" SANITARY SEWER LATERAL (1.0% MINIMUM SLOPE). SEE SANITARY SEWER PIPE SCHEDULE, THIS SHEET AND DETAIL, SHEET C-902.
- S-5 REROUTE EXISTING 3" SANITARY SEWER FORCE MAIN AS SHOWN USING 2" DIA. PVC SDR 21 PIPE. LAST 5' PRIOR TO CONNECTION WITH MANHOLE SHALL ENLARGE TO 3" DIAMETER PER KENT COUNTY FORCE MAIN DISCHARGE DETAIL, SEE SHEET C-304.
- S-6 CONNECT PROPOSED 8" SANITARY SEWER MAIN TO EXISTING BUILDING SEWER. SEE PLUMBING PLANS FOR BUILDING SEWER INFORMATION.
- S-7 INSTALL CLEANOUT 3' OUTSIDE BUILDING. SEE DETAIL, SHEET C-902.
- S-8 CORE DRILL EXISTING SANITARY SEWER MANHOLE AND CONNECT PROPOSED 8" SEWER AT INVERT 46.98' USING APPROVED PIPE TO MANHOLE CONNECTOR.
- S-9 INSTALL PROPOSED 8" SANITARY SEWER IN EXISTING PIPE OPENING AFTER REMOVAL OF EXISTING MAIN.
- S-10 EXISTING SANITARY SEWER PUMP STATION TO BE UPGRADED. SEE SHEETS C-303 AND C-304.
- S-11 PROPOSED DROP MANHOLE WITH RELINER INTERIOR DROP CONNECTION.
- S-12 PROPOSED 3" DIA. PVC SDR 21 SANITARY SEWER FORCE MAIN FROM PUMP STATION. CONNECT TO EXISTING 3" DIA. F.M.
- ~~S-13 CONTRACTOR TO TEST PIT/CONFIRM LOCATION OF EXISTING SANITARY SEWER LATERAL AND PROVIDE TO ENGINEER.~~
- S-14 SANITARY/STORM SEWER CONFLICT. SEE DETAIL, SHEET C-902 FOR REQUIREMENTS. 

REFERENCE SHEET C-301

LAYER STATE: C-301

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 1**

WOODSIDE
KENT COUNTY, DELAWARE



**BECKER
MORGAN
GROUP**

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BMG: 2011081.00
SCALE: 1" = 30'
DATE: 7-27-12
DRAWN BY: M.J.H.

CSK008

SANITARY SEWER PIPE SCHEDULE

PIPE No.	SIZE	PIPE TYPE	LENGTH	SLOPE	INV. IN	INV. OUT
SS-1	8"	PVC SDR 35	371'	0.30%	44.29'	43.17'
SS-2	8"	PVC SDR 35	251'	0.50%	48.71'	47.46'
SS-3	8"	PVC SDR 35	18'	0.40%	48.88'	48.81'
SS-4	8"	PVC SDR 35	62'	0.30%	44.53'	44.34'
SS-5	8"	PVC SDR 35	219'	0.30%	45.24'	44.58'
SS-6	8"	PVC SDR 35	91'	0.30%	45.53'	45.26'
SS-7	8"	PVC SDR 35	319'	0.46%	47.11'	45.63'
SS-8	8"	PVC SDR 35	43'	0.46%	47.36'	47.16'
SS-9	8"	PVC SDR 35	207'	0.30%	46.20'	45.58'
SS-10	8"	PVC SDR 35	115'	0.30%	46.60'	46.25'
SS-11	8"	PVC SDR 35	75'	0.35%	46.98'	46.70'
SS-12	8"	PVC SDR 35	132'	0.70%	47.63'	46.70'
SS-13	6"	PVC SDR 35	27'	1.04%	50.05'	49.77'
SS-14	8"	CLASS 52 DUCTILE IRON	55'	0.30%	46.82'	46.65'
SS-15	4"	PVC SDR 35	64'	2.08%	52.29'	50.96'
SS-16	6"	PVC SDR 35	48'	1.04%	49.53'	49.03'
SS-17	8"	PVC SDR 35	6'	0.83%	46.55'	46.50'
SS-18	6"	PVC SDR 35	17'	2.08%	44.08'	43.73'

SANITARY SEWER MANHOLE SCHEDULE

MH NO.	RIM EL.	DIA.	DEPTH	INV. IN	INV. IN	INV. IN	INV. OUT
1*	51.50'	60"	7.21'	-	47.46'	44.34'	44.29'
2	53.40'	48"	4.69'	-	-	48.81'	48.71'
3	52.92'	48"	8.39'	-	-	44.58'	44.53'
4*	53.30'	60"	8.06'	-	49.77'	45.26'	45.24'
5	52.40'	48"	6.87'	-	45.63'	45.58'	45.53'
6	54.40'	48"	7.29'	-	-	47.16'	47.11'
7	53.70'	48"	7.50'	-	-	46.25'	46.20'
8	54.20'	48"	7.60'	-	46.70'	46.70'	46.60'
9*	54.00'	60"	7.45'	49.03'	50.96'	46.65'	46.55'
10	54.30'	48"	7.48'	-	-	47.94'	46.82'

* DROP MANHOLE

REFERENCE SHEET C-301

LAYER STATE: C-301

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 1**
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DRAWN BY: M.J.H.
CSK009

SANITARY SEWER CONSTRUCTION NOTES

- S-1 INSTALL 8" SANITARY SEWER MAIN. SEE SANITARY SEWER PIPE SCHEDULE, THIS SHEET.
- S-2 INSTALL SANITARY SEWER MANHOLE WITH FRAME AND COVER AT THE INVERTS AND ELEVATIONS SHOWN HEREON (typ.). SEE SANITARY SEWER MANHOLE SCHEDULE, THIS SHEET AND DETAILS, SHEET C-902.
- S-3 CONNECT PROPOSED 8" SANITARY SEWER TO SANITARY SEWER BY OTHERS.
- S-4 INSTALL A 6" SANITARY SEWER LATERAL (1.0% MINIMUM SLOPE). SEE SANITARY SEWER PIPE SCHEDULE, THIS SHEET AND DETAIL, SHEET C-902.
- S-5 REROUTE EXISTING 3" SANITARY SEWER FORCE MAIN AS SHOWN USING 2" DIA. PVC SDR 21 PIPE. LAST 5' PRIOR TO CONNECTION WITH MANHOLE SHALL ENLARGE TO 3" DIAMETER PER KENT COUNTY FORCE MAIN DISCHARGE DETAIL, SEE SHEET C-304.
- S-6 CONNECT PROPOSED 8" SANITARY SEWER MAIN TO EXISTING BUILDING SEWER. SEE PLUMBING PLANS FOR BUILDING SEWER INFORMATION.
- S-7 INSTALL CLEANOUT 3' OUTSIDE BUILDING. SEE DETAIL, SHEET C-902.
- S-8 CORE DRILL EXISTING SANITARY SEWER MANHOLE AND CONNECT PROPOSED 8" SEWER AT INVERT 46.98' USING APPROVED PIPE TO MANHOLE CONNECTOR.
- S-9 INSTALL PROPOSED 8" SANITARY SEWER IN EXISTING PIPE OPENING AFTER REMOVAL OF EXISTING MAIN.
- S-10 EXISTING SANITARY SEWER PUMP STATION TO BE UPGRADED. SEE SHEETS C-303 AND C-304.
- S-11 PROPOSED DROP MANHOLE WITH RELINER INTERIOR DROP CONNECTION.
- S-12 PROPOSED 3" DIA. PVC SDR 21 SANITARY SEWER FORCE MAIN FROM PUMP STATION. CONNECT TO EXISTING 3" DIA. F.M.
- S-13 CONTRACTOR TO TEST PIT/CONFIRM LOCATION OF EXISTING SANITARY SEWER LATERAL AND PROVIDE TO ENGINEER.
- S-14 SANITARY/STORM SEWER CONFLICT. SEE DETAIL, SHEET C-902 FOR REQUIREMENTS. 

REFERENCE SHEET C-302

LAYER STATE: C-302

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 1**
WOODSIDE
KENT COUNTY, DELAWARE



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DRAWN BY: M.J.H.

CSK010

SANITARY SEWER PIPE SCHEDULE						
PIPE No.	SIZE	PIPE TYPE	LENGTH	SLOPE	INV. IN	INV. OUT
SS-1	8"	PVC SDR 35	371'	0.30%	44.29'	43.17'
SS-2	8"	PVC SDR 35	251'	0.50%	48.71'	47.46'
SS-3	8"	PVC SDR 35	18'	0.40%	48.88'	48.81'
SS-4	8"	PVC SDR 35	62'	0.30%	44.53'	44.34'
SS-5	8"	PVC SDR 35	219'	0.30%	45.24'	44.58'
SS-6	8"	PVC SDR 35	91'	0.30%	45.53'	45.26'
SS-7	8"	PVC SDR 35	319'	0.46%	47.11'	45.63'
SS-8	8"	PVC SDR 35	43'	0.46%	47.36'	47.16'
SS-9	8"	PVC SDR 35	207'	0.30%	46.20'	45.58'
SS-10	8"	PVC SDR 35	115'	0.30%	46.60'	46.25'
SS-11	8"	PVC SDR 35	75'	0.35%	46.98'	46.70'
SS-12	8"	PVC SDR 35	132'	0.70%	47.63'	46.70'
SS-13	6"	PVC SDR 35	27'	1.04%	50.05'	49.77'
SS-14	8"	CLASS 52 DUCTILE IRON	55'	0.30%	46.82'	46.65'
SS-15	4"	PVC SDR 35	64'	2.08%	52.29'	50.96'
SS-16	6"	PVC SDR 35	48'	1.04%	49.53'	49.03'
SS-17	8"	PVC SDR 35	6'	0.83%	46.55'	46.50'
SS-18	6"	PVC SDR 35	17'	2.08%	44.08'	43.73'

SANITARY SEWER MANHOLE SCHEDULE							
MH NO.	RIM EL.	DIA.	DEPTH	INV. IN	INV. IN	INV. IN	INV. OUT
1*	51.50'	60"	7.21'	-	47.46'	44.34'	44.29'
2	53.40'	48"	4.69'	-	-	48.81'	48.71'
3	52.92'	48"	8.39'	-	-	44.58'	44.53'
4*	53.30'	60"	8.06'	-	49.77'	45.26'	45.24'
5	52.40'	48"	6.87'	-	45.63'	45.58'	45.53'
6	54.40'	48"	7.29'	-	-	47.16'	47.11'
7	53.70'	48"	7.50'	-	-	46.25'	46.20'
8	54.20'	48"	7.60'	-	46.70'	46.70'	46.68'
9*	54.00'	60"	7.45'	49.03'	50.96'	46.65'	46.55'
10	54.30'	48"	7.48'	-	-	47.94'	46.82'

* DROP MANHOLE

REFERENCE SHEET C-302

LAYER STATE: C-302

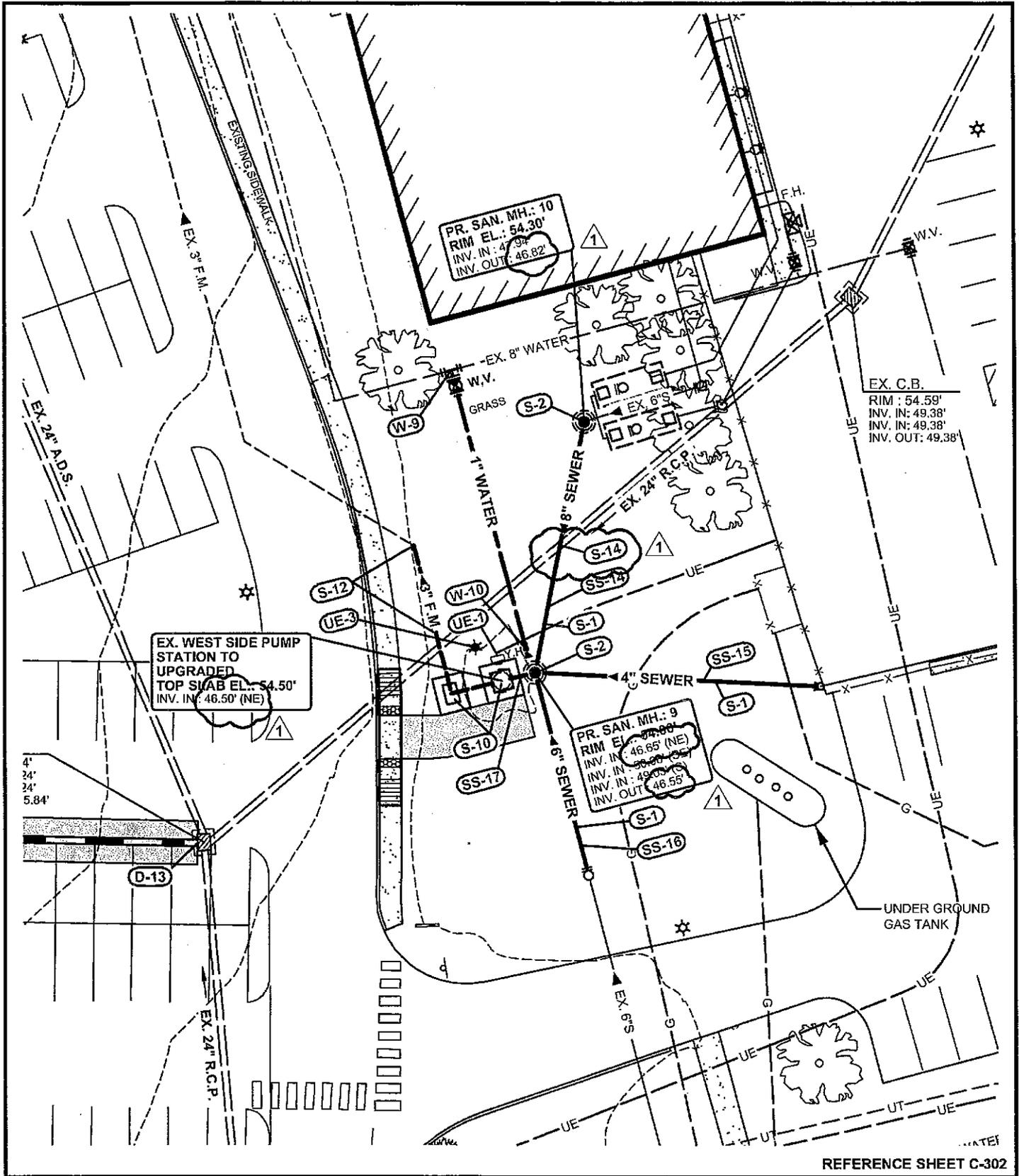
**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 1**
WOODSIDE
KENT COUNTY, DELAWARE



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DRAWN BY: M.J.H.

CSK011



REFERENCE SHEET C-302

LAYER STATE: C-302

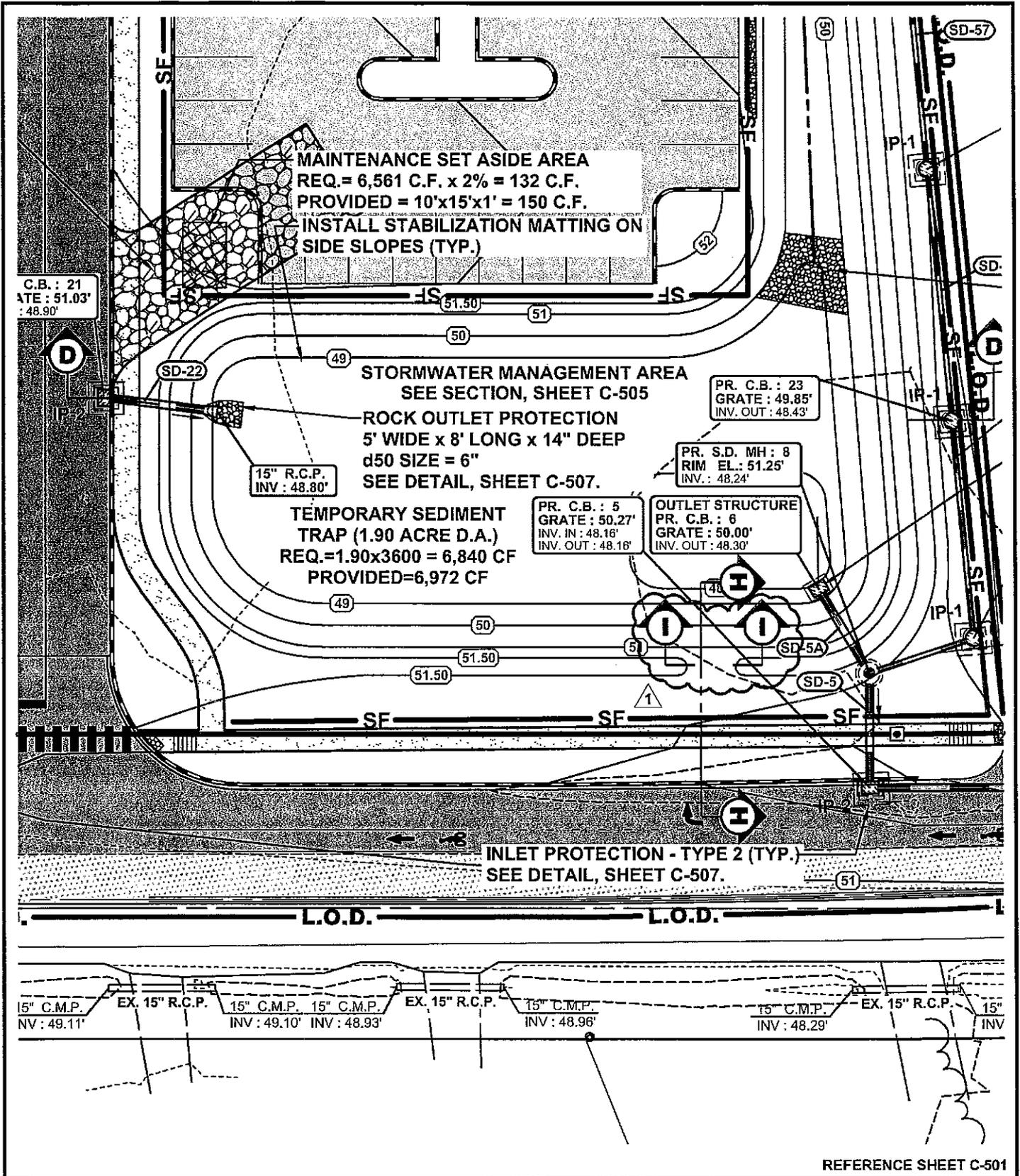
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DRAWN BY: M.J.H.
CSK012



REFERENCE SHEET C-501

LAYER STATE: C-501

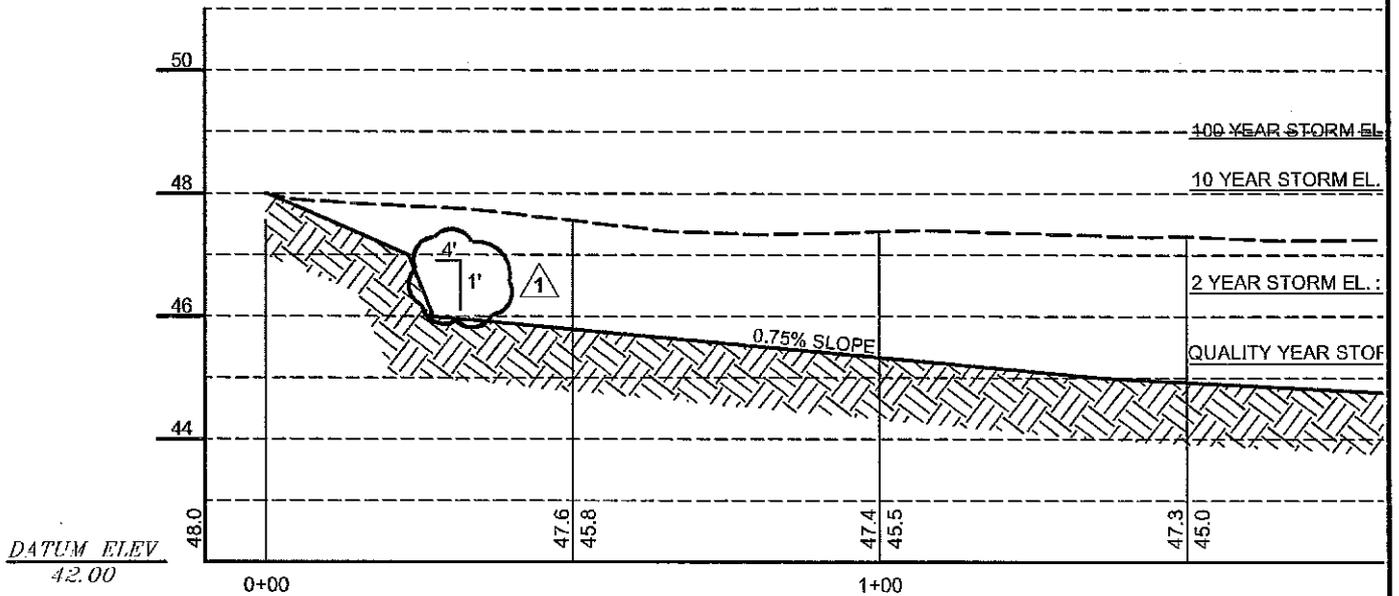
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 SCALE: 1" = 30'
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 DRAWN BY: M.J.H.
CSK013





CONSTRUCTED WETLAND - SECTION B-B

SCALE : 1" = 30' HORIZONTAL
 : 1" = 3' VERTICAL

REFERENCE SHEET C-504

LAYERSTATE: C-504

**POLYTECH HIGH SCHOOL
 ADDITIONS AND RENOVATIONS
 BID PAC A - ADDENDUM 1**
 WOODSIDE
 KENT COUNTY, DELAWARE

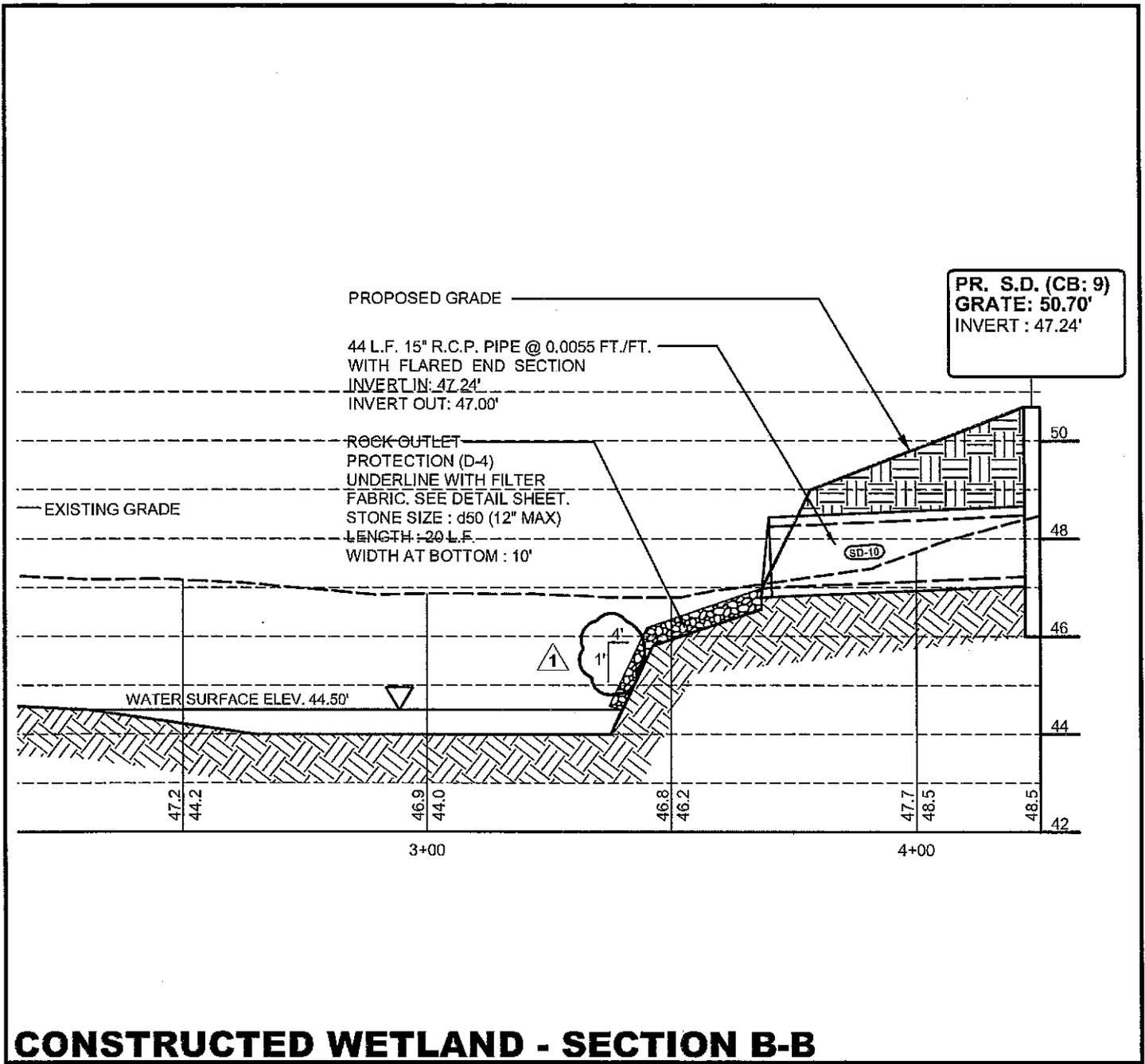


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BMG: 2011081.00
 SCALE: 1" = 30'
 DATE: 7-27-12
 DRAWN BY: M.J.H.

CSK014



CONSTRUCTED WETLAND - SECTION B-B

SCALE: 1" = 30' HORIZONTAL
 : 1" = 3' VERTICAL

REFERENCE SHEET C-504

LAYERSTATE: C-504

**POLYTECH HIGH SCHOOL
 ADDITIONS AND RENOVATIONS
 BID PAC A - ADDENDUM 1**

WOODSIDE
 KENT COUNTY, DELAWARE



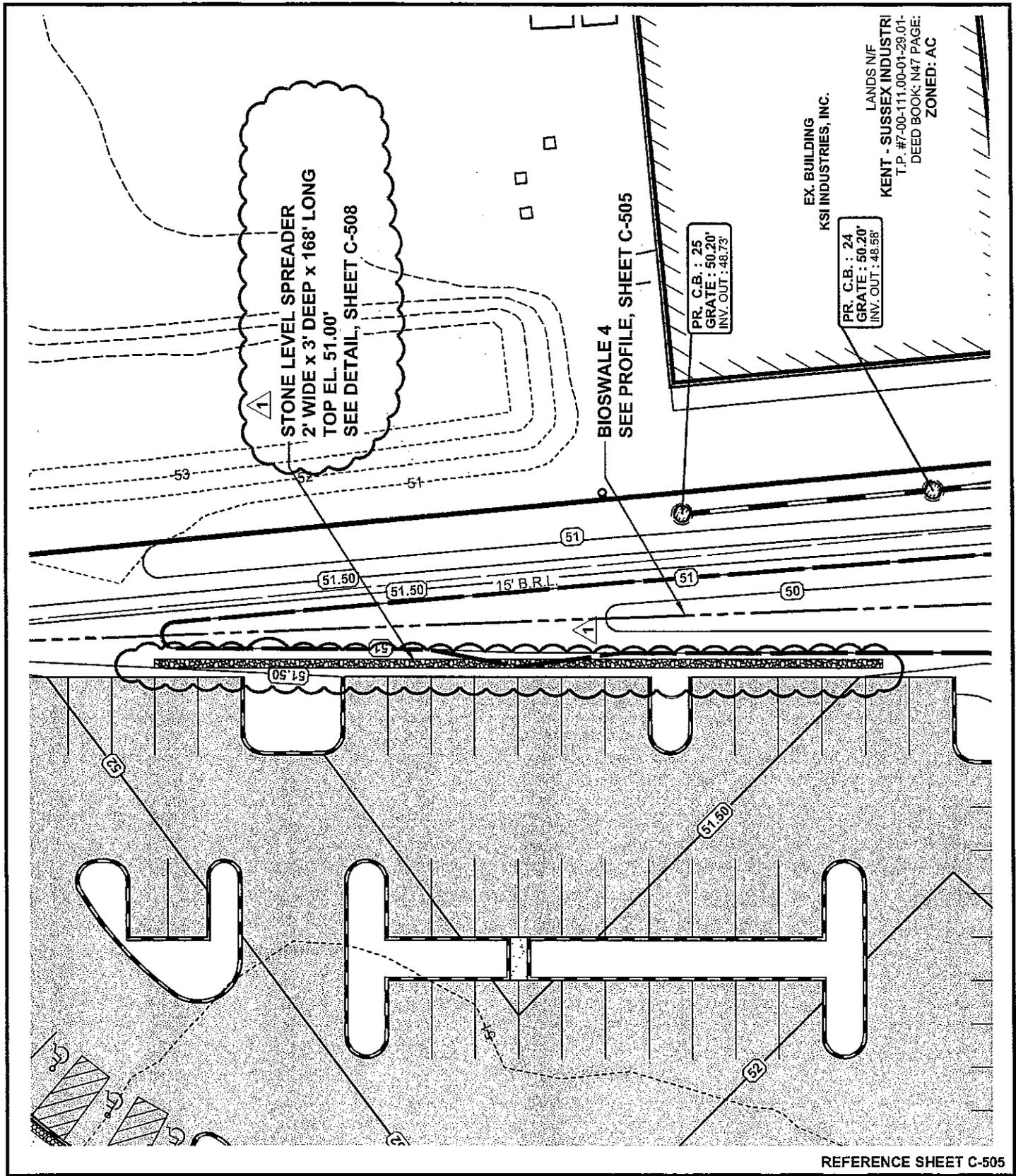
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BMG: 2011081.00
 SCALE: 1" = 30'
 DATE: 7-27-12
 DRAWN BY: M.J.H.

CSK015



LAYER STATE: C-505

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 1**

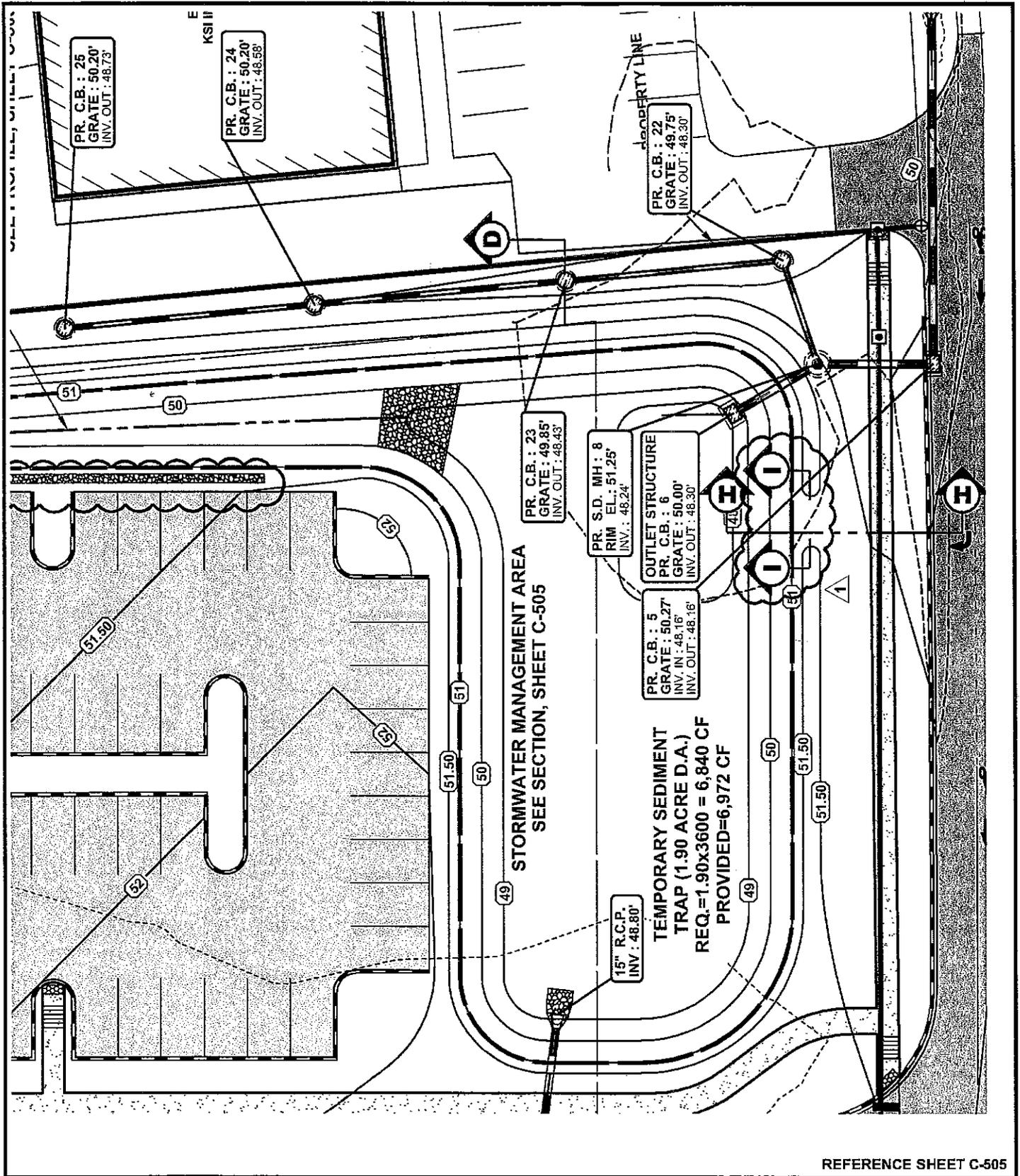
WOODSIDE
KENT COUNTY, DELAWARE

1

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BMG: 2011081.00
SCALE: 1" = 30'
DATE: 7-27-12
DRAWN BY: M.J.H.
CSK016



POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 1
WOODSIDE
KENT COUNTY, DELAWARE

1

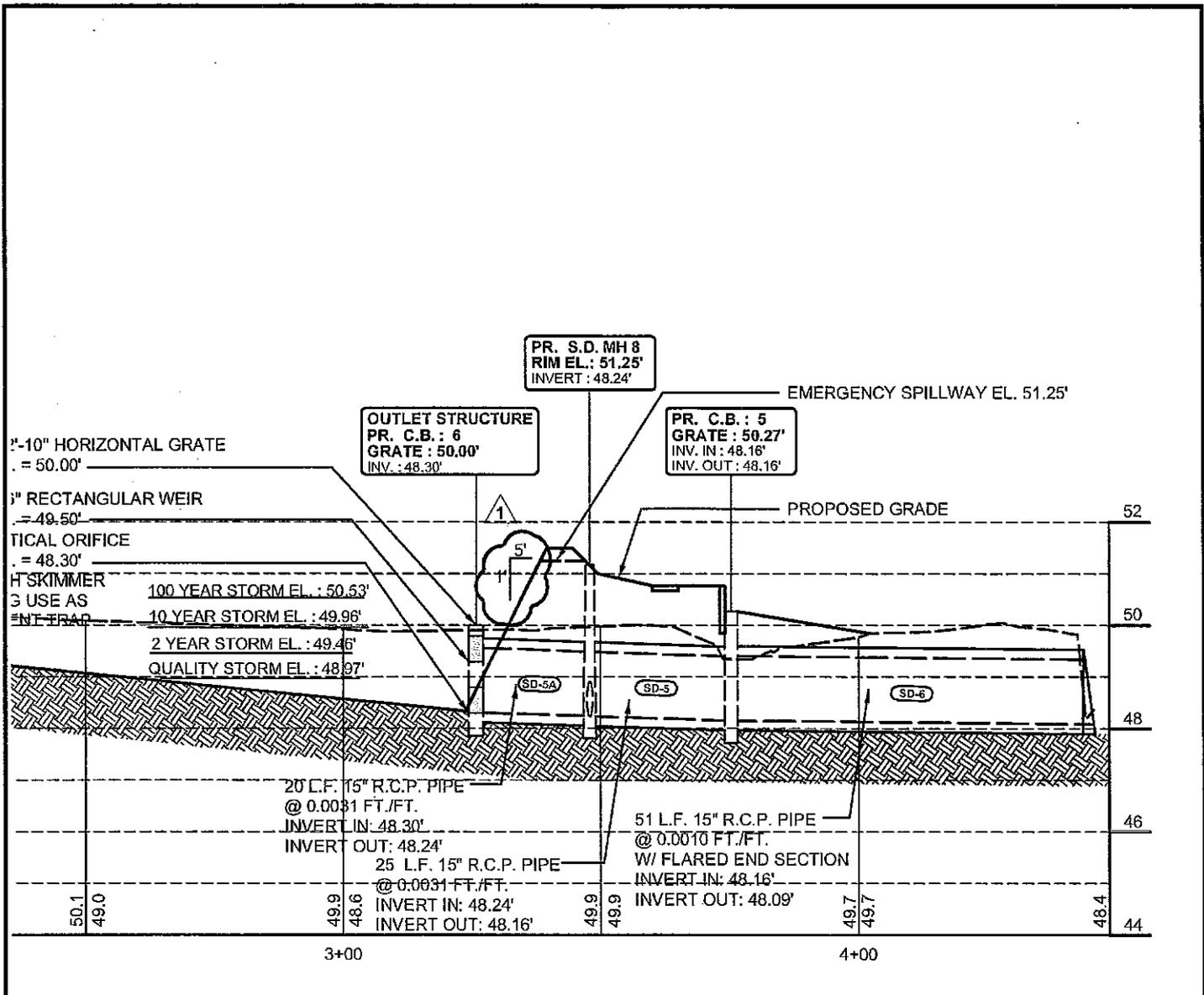
LAYERSTATE : C-505

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BMG: 2011081.00
SCALE: 1" = 30'
DATE: 7-27-12
DRAWN BY: M.J.H.

CSK017



WATER MANAGEMENT BIOSWALE NO. 4 - SECTION C-C

SCALE : 1" = 30' HORIZONTAL
 : 1" = 3' VERTICAL

REFERENCE SHEET C-505

LAYERSTATE: C-505

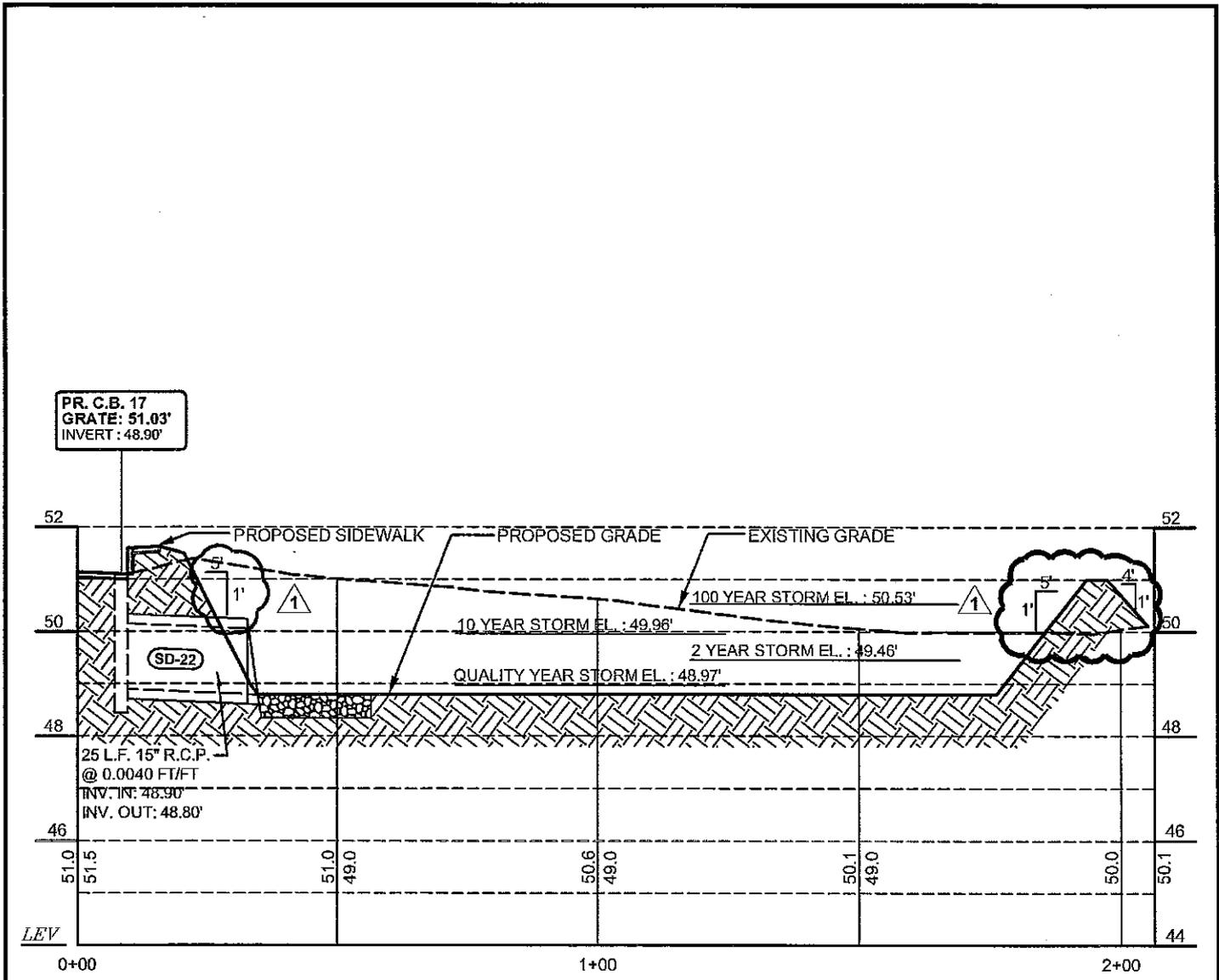
**POLYTECH HIGH SCHOOL
 ADDITIONS AND RENOVATIONS
 BID PAC A - ADDENDUM 1**
 WOODSIDE
 KENT COUNTY, DELAWARE



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BMG: 2011081.00
 SCALE: 1" = 30'
 DATE: 7-27-12
 DRAWN BY: M.J.H.
CSK018

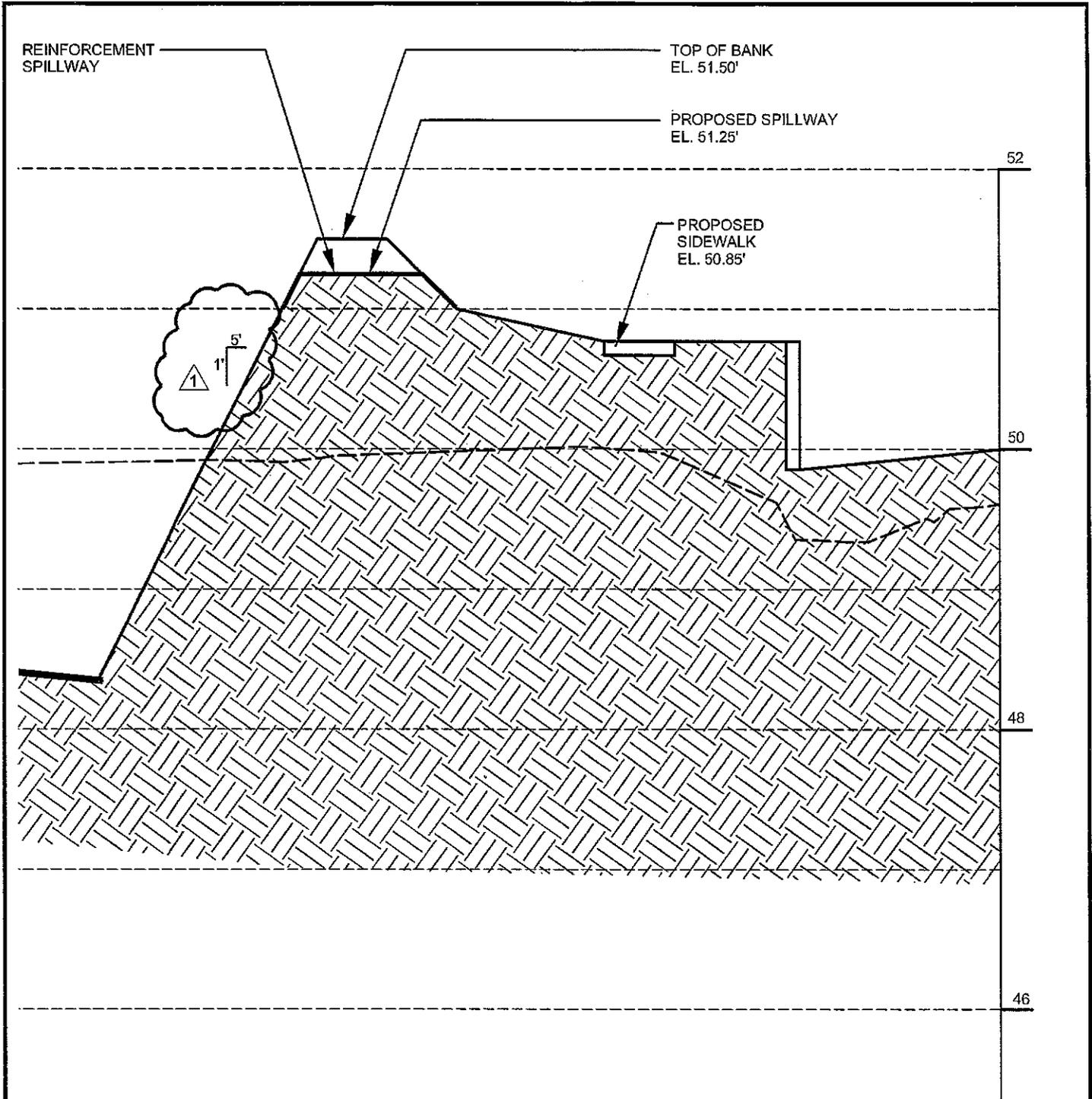


STORMWATER MANAGEMENT AREA - SECTION D-D

SCALE : 1" = 30' HORIZONTAL
 : 1" = 3' VERTICAL

REFERENCE SHEET C-505

<p>POLYTECH HIGH SCHOOL ADDITIONS AND RENOVATIONS BID PAC A - ADDENDUM 1</p> <p>WOODSIDE KENT COUNTY, DELAWARE</p>	<p>BECKER MORGAN GROUP</p>	<p>ARCHITECTURE ENGINEERING Dover, DE</p> <p>309 S. Governors Ave. Dover, DE 19904 Ph. 302.734.7950 Fax 302.734.7965</p>	<p>BMG: 2011081.00 SCALE: 1" = 30' DATE: 7-27-12 DRAWN BY: M.J.H.</p> <p style="font-size: 1.2em; font-weight: bold;">CSK019</p>
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-EMERGENCY SPILLWAY CROSS SECTION-SECTION H-H

SCALE : 1" = 10' HORIZONTAL
 : 1" = 1' VERTICAL

REFERENCE SHEET C-505

LAYERSTATE: C-505

**POLYTECH HIGH SCHOOL
 ADDITIONS AND RENOVATIONS
 BID PAC A - ADDENDUM 1**
 WOODSIDE
 KENT COUNTY, DELAWARE

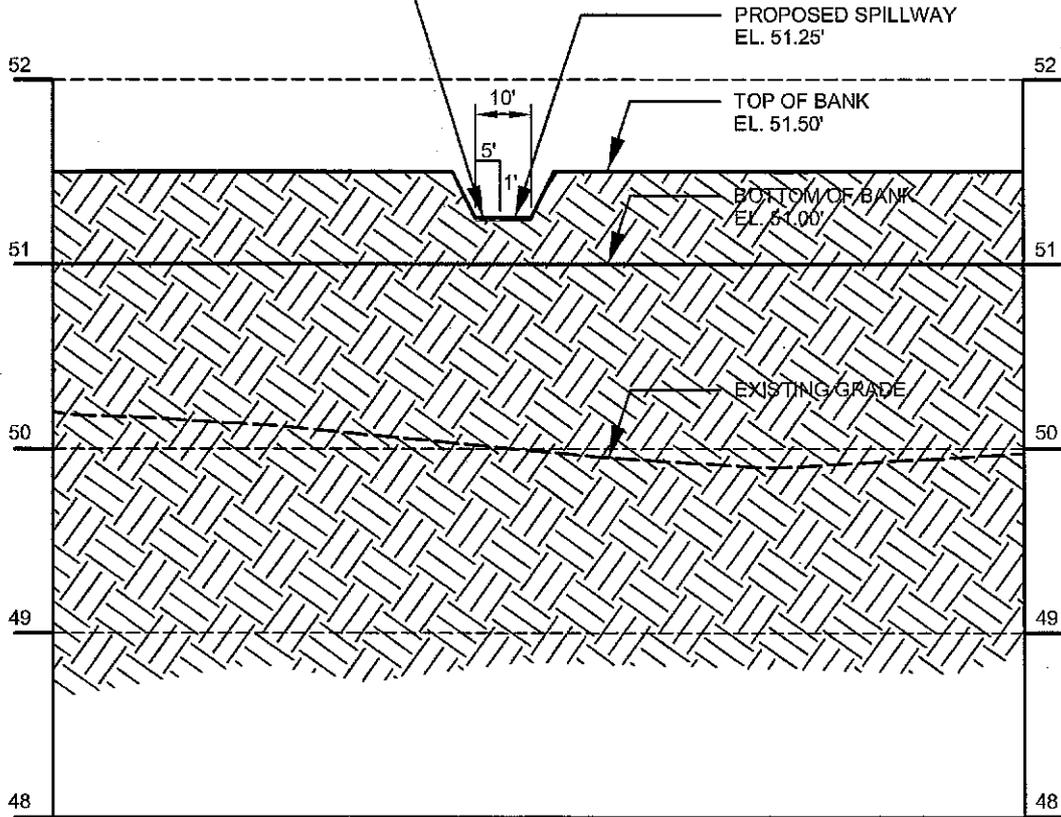


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 SCALE: 1" = 10'
 DATE: 7-27-12
 DRAWN BY: M.J.H.

CSK020

PLACE TURF REINFORCEMENT
MATTING ON SPILLWAY



1

POND NO. 3-EMERGENCY SPILLWAY CROSS SECTION

-SECTION I-I

SCALE : 1" = 10' HORIZONTAL
: 1" = 1' VERTICAL

REFERENCE SHEET C-505

LAYER STATE: C-505

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 1**

WOODSIDE
KENT COUNTY, DELAWARE

1

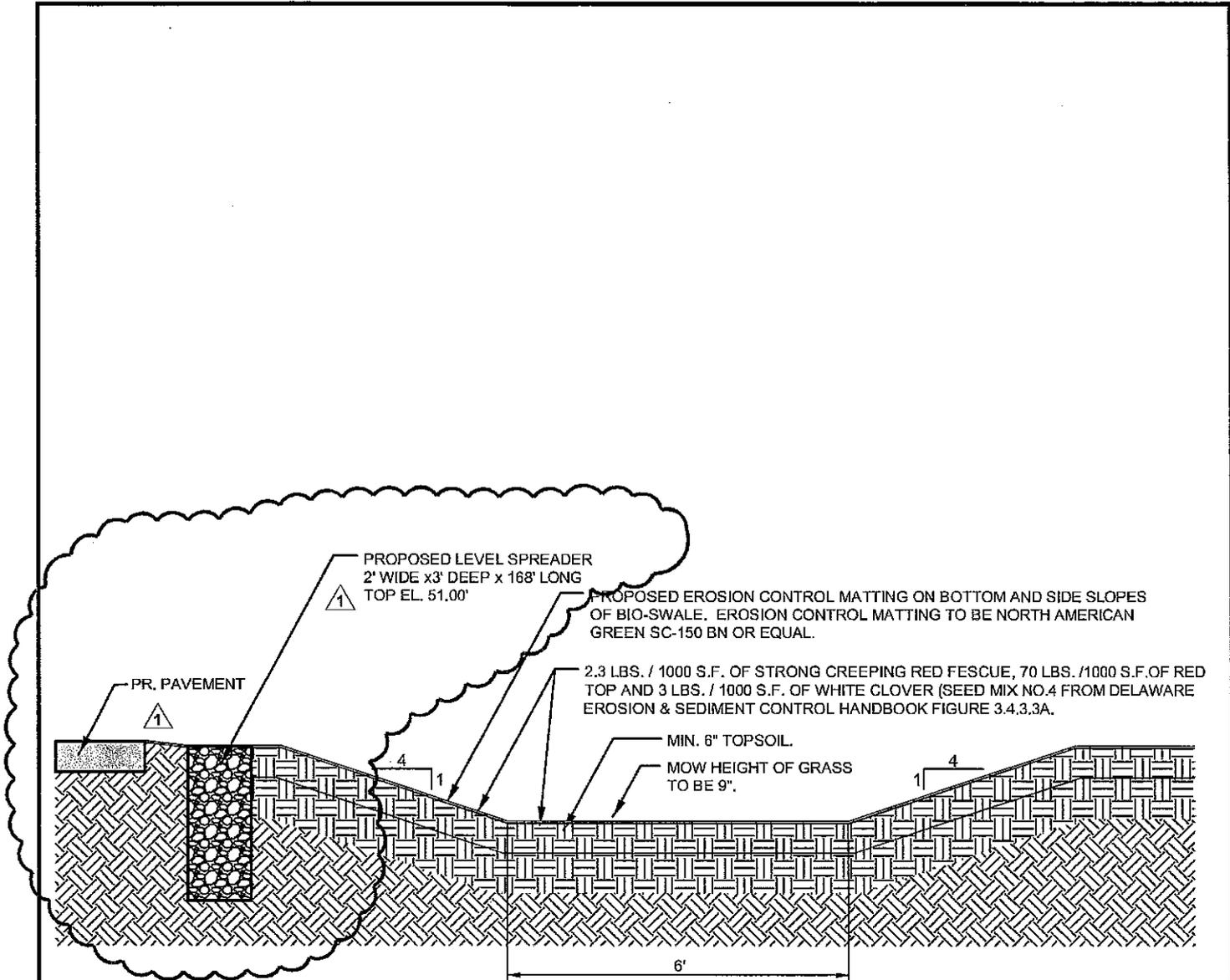
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BMG: 2011081.00
SCALE: 1" = 10'
DATE: 7-27-12
DRAWN BY: M.J.H.

CSK021



TYPICAL SECTION - BIOSWALE NO. 4

NO SCALE

REFERENCE SHEET C-505

LAYER STATE: C-505

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 1**
WOODSIDE
KENT COUNTY, DELAWARE

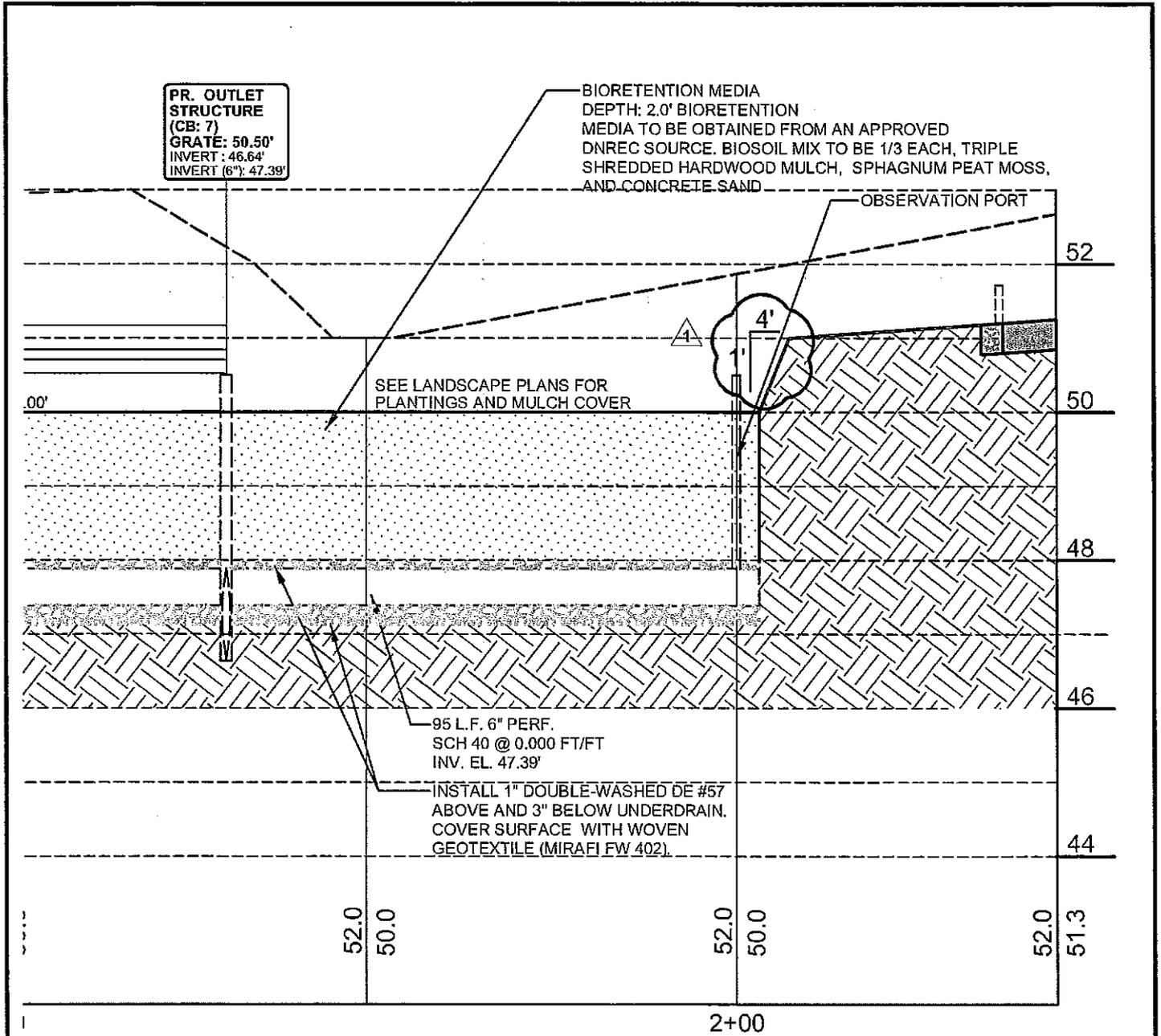


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BMG: 2011081.00
SCALE: NO SCALE
DATE: 7-27-12
DRAWN BY: M.J.H.

CSK022



RMWATER MANAGEMENT BIORETENTION - SECTION E-E

SCALE : 1" = 20' HORIZONTAL
 : 1" = 2' VERTICAL

REFERENCE SHEET C-506

LAYER STATE: C-506

**POLYTECH HIGH SCHOOL
 ADDITIONS AND RENOVATIONS
 BID PAC A - ADDENDUM 1**
 WOODSIDE
 KENT COUNTY, DELAWARE

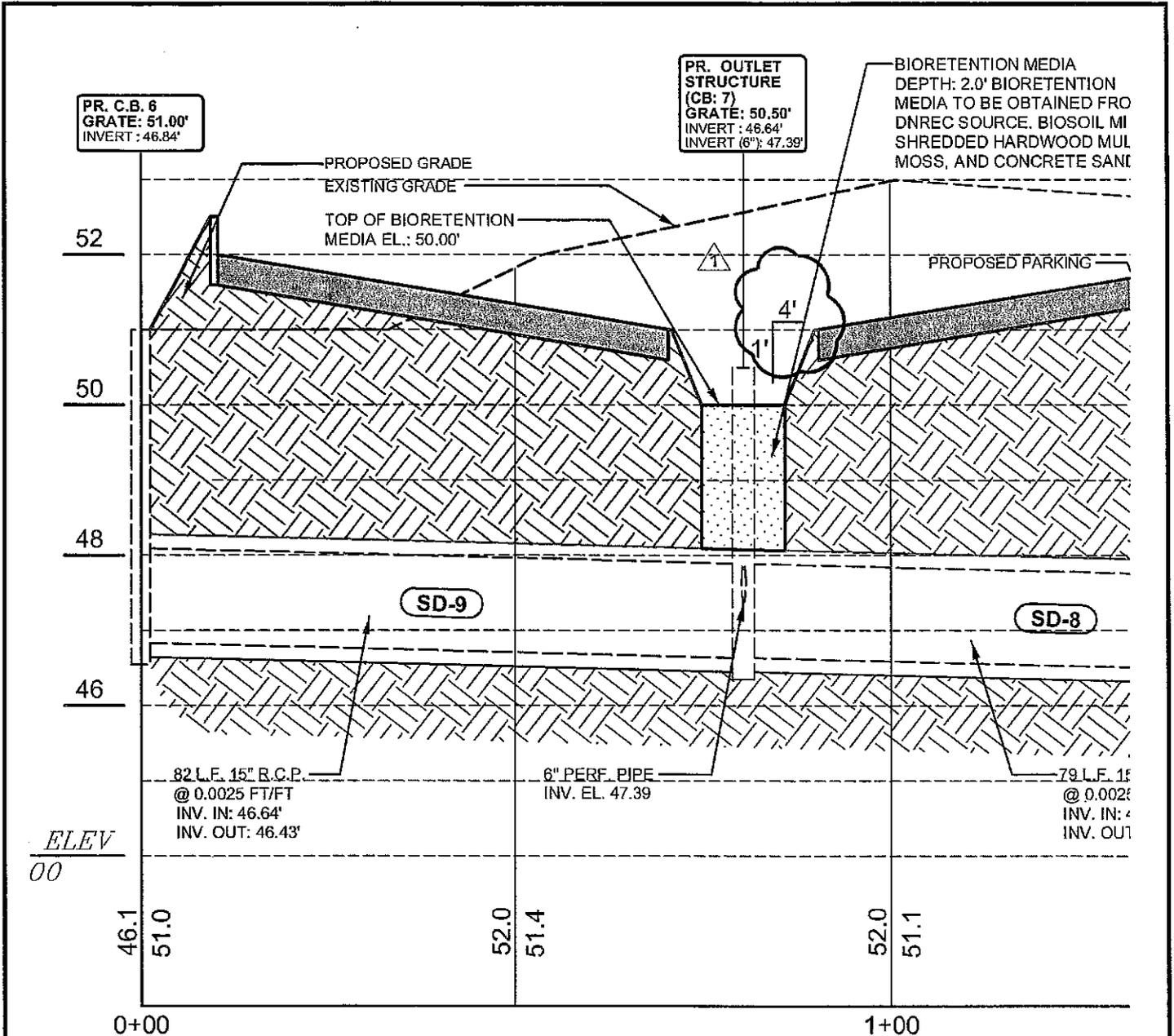


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 Fax 302.734.7965

BMG: 2011081.00
 SCALE: 1" = 20'
 DATE: 7-27-12
 DRAWN BY: M.J.H.

CSK023



SWM BIORETENTION - SECTION F-F

SCALE: 1" = 20' HORIZONTAL
 : 1" = 2' VERTICAL

REFERENCE SHEET C-506

LAYER STATE: C-506

**POLYTECH HIGH SCHOOL
 ADDITIONS AND RENOVATIONS
 BID PAC A - ADDENDUM 1**
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 KENT COUNTY, DELAWARE

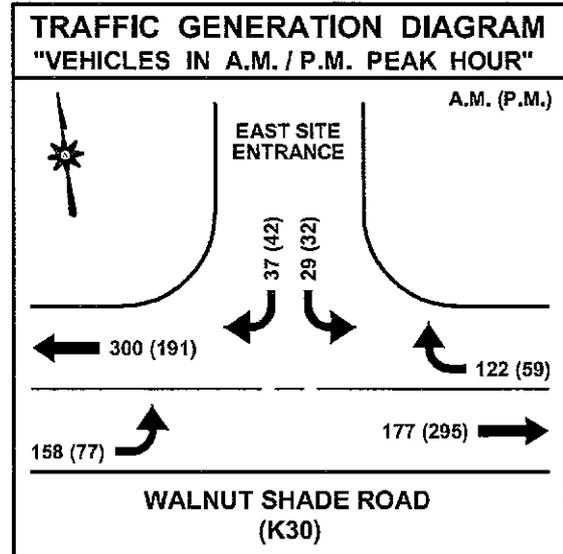
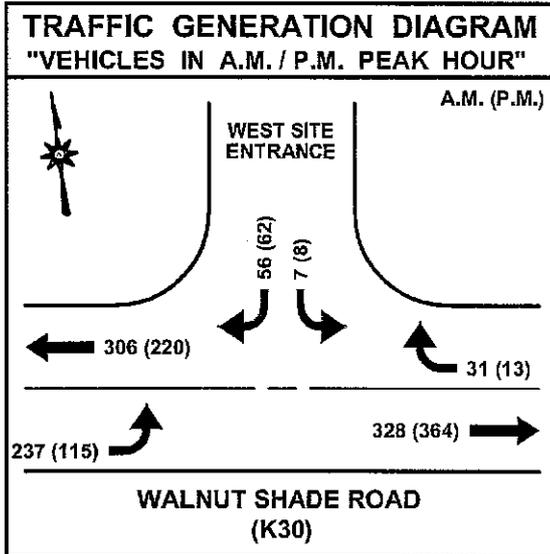


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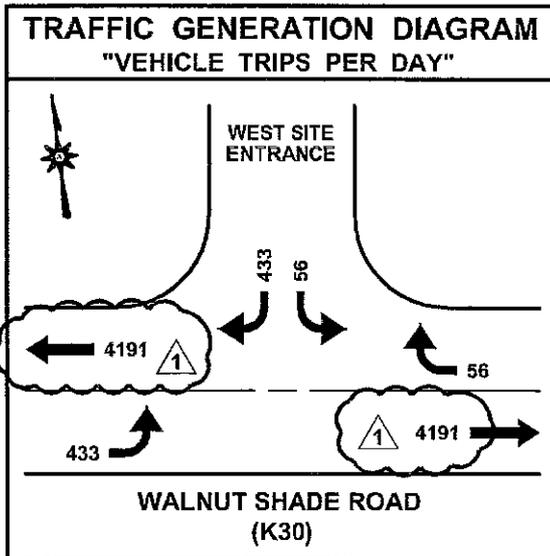
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BMG: 2011081.00
 SCALE: 1" = 20'
 DATE: 7-27-12
 DRAWN BY: M.J.H.
CSK024

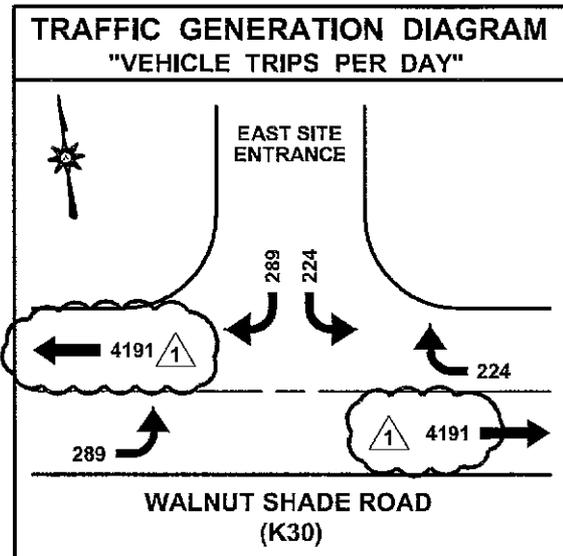
POLYTECH HIGH SCHOOL - PROPOSED PEAK HOUR DISTRIBUTION



POLYTECH HIGH SCHOOL - PROPOSED SITE ADT



72% TO & FROM WEST = 1443 TRIPS
722 TRIPS ENTERING, 721 TRIPS EXITING



28% TO & FROM EAST = 561 TRIPS
280 TRIPS ENTERING, 281 TRIPS EXITING

REFERENCE SHEET C-601

LAYER STATE: C-601

POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 1
WOODSIDE
KENT COUNTY, DELAWARE



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BMG: 2011081.00
SCALE: 1" = 30'
DATE: 7-27-12
DRAWN BY: M.J.H.

CSK025

ROAD TRAFFIC DATA :

K30 (WALNUT SHADE ROAD) - SPEED LIMIT = 40 MPH
AADT = 7,222 Trips (from 2011 Deldot Traffic Summary)
10 YEAR PROJECTED AADT: $(1.015^{10}) \times \text{AADT} = 8,381$ TRIPS
10 YEAR PROJECTED AADT: 8,381 TRIPS
DIRECTIONAL SPLIT: 50% / 50%
PEAK HOUR : 14.11% = 1,183 TRIPS {Design Hourly Volume (DHV)}
4.65% TRUCKS: 55
PEAK HOUR TRUCKS: 4.65% = 8 TRIPS



SITE TRIPS GENERATED:

SOURCE: ITE TRIP GENERATION MANUAL (8TH EDITION)
ITE: 530 HIGH SCHOOL
TOTAL SITE ADT = $(LN(T)) = 0.81 * LN(1,200) + 1.86 = 2,004$ TRIPS)
A.M. PEAK HR. TRIPS = 677 (81% IN [548] / 19% OUT [129])
P.M. PEAK HR. TRIPS = 410 (64% IN [266] / 36% OUT [144])

REFERENCE SHEET C-601

LAYER STATE: C-601

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 1**

WOODSIDE
KENT COUNTY, DELAWARE



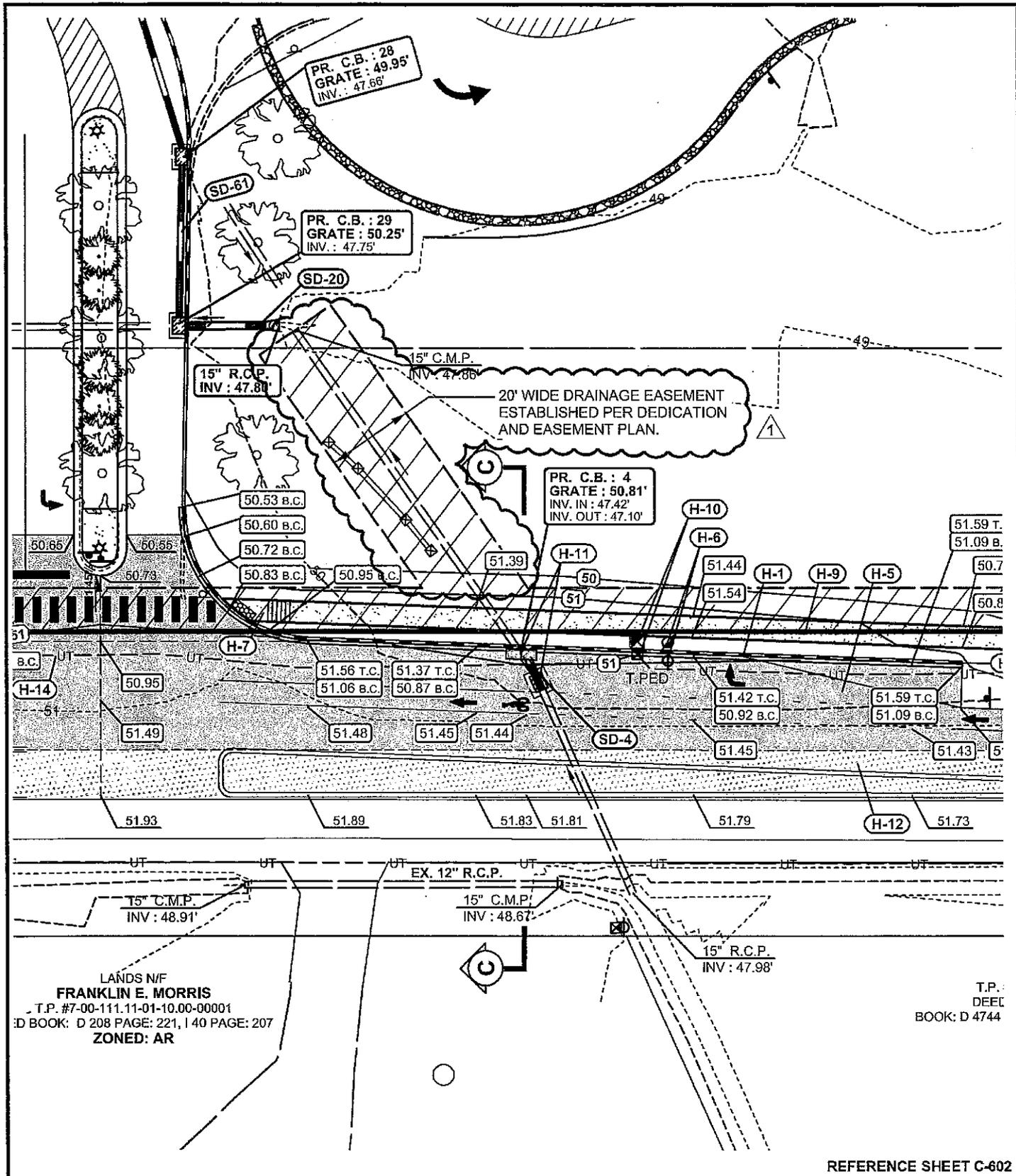
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DRAWN BY: M.J.H.

CSK026



LANDS N/F
FRANKLIN E. MORRIS
 T.P. #7-00-111.11-01-10.00-00001
 D BOOK: D 208 PAGE: 221, I 40 PAGE: 207
 ZONED: AR

T.P.:
 DEEL
 BOOK: D 4744

REFERENCE SHEET C-602

LAYER STATE: C-602

**POLYTECH HIGH SCHOOL
 ADDITIONS AND RENOVATIONS
 BID PAC A - ADDENDUM 1**

WOODSIDE
 KENT COUNTY, DELAWARE

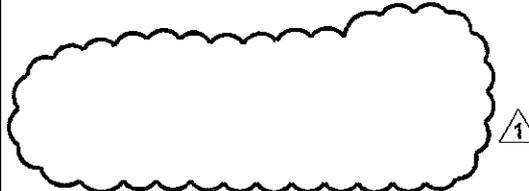


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CSK027

ENTRANCE DETAILS AND SECTIONS



ISSUE BLOCK

MARK	DATE	DESCRIPTION
11	7-27-12	ADDENDUM 1 △
10	7-17-12	DNREC, DELDOT FINAL KENT COUNTY COMMENT REVISIONS
9	7-9-12	BID PAC A
8	6-28-12	DNREC, DELDOT COMMENT REVISIONS
7	6-21-12	KENT COUNTY COMMENT REVISIONS
6	6-8-12	95% CD SUBMISSION
5	5-31-12	DNREC, KENT COUNTY, FIRE MARSHAL COMMENT REVISIONS
4	5-16-12	DD SUBMISSION
3	5-14-12	DELDOT COMMENT REVISIONS
2	3-7-12	CD SUBMISSIONS - DNREC, DELDOT, KENT COUNTY, FIRE MARSHAL
1	2-8-12	SD SUBMISSION

LAYER STATE: C-603

PROJECT NO.: 2011081.00

DATE: 12/14/2011 △

SCALE: NO SCALE

DRAWN BY: M.J.H. PROJ. MGR.: J.M.R.

SHEET

C-603

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F:\AutoCAD\Standards\BMG-BORDERS-WITH-C\BMG-C-30x42.dwg 5/4/2006 1:54:54 PM EDT

REFERENCE SHEET C-603

LAYER STATE: C-603

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
BID PAC A - ADDENDUM 1**

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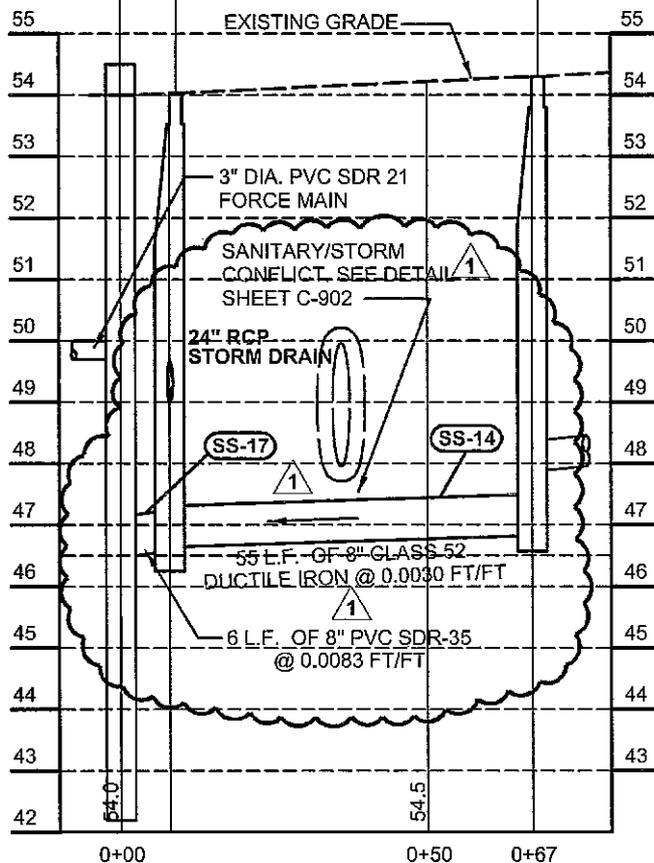
CSK028

EX. WEST SIDE PUMP STATION TO BE UPGRADED
 NEW TOP EL.: 54.50'
 BOTTOM EL.: 42.19'
 NEW INV. IN.: 46.50'
 STA. 0+00

EX. PUMP STA. 3
 TOP EL.: 54.04'
 INV. IN.: 47.39' (6" PVC)
 INV. IN.: 45.59' (4" PVC)
 BOTTOM EL.: 42.19'

PR. SAN. MH.: 9
 RIM EL.: 54.30'
 INV. IN.: 46.65' (NE)
 INV. IN.: 50.06' (SE)
 INV. IN.: 49.03' (S)
 INV. OUT.: 46.55'
 DEPTH: 7.45'
 STA. 0+08

PR. SAN. MH.: 10
 RIM EL.: 54.30'
 INV. IN.: 47.34'
 INV. OUT.: 46.82'
 DEPTH: 7.48'
 STA. 0+67



SANITARY SEWER PROFILE - SS-17 & SS-14

SCALE : 1" = 30' HORIZONTAL
 : 1" = 3' VERTICAL

REFERENCE SHEET C-701

LAYER STATE: C-701

**POLYTECH HIGH SCHOOL
 ADDITIONS AND RENOVATIONS
 BID PAC A - ADDENDUM 1**
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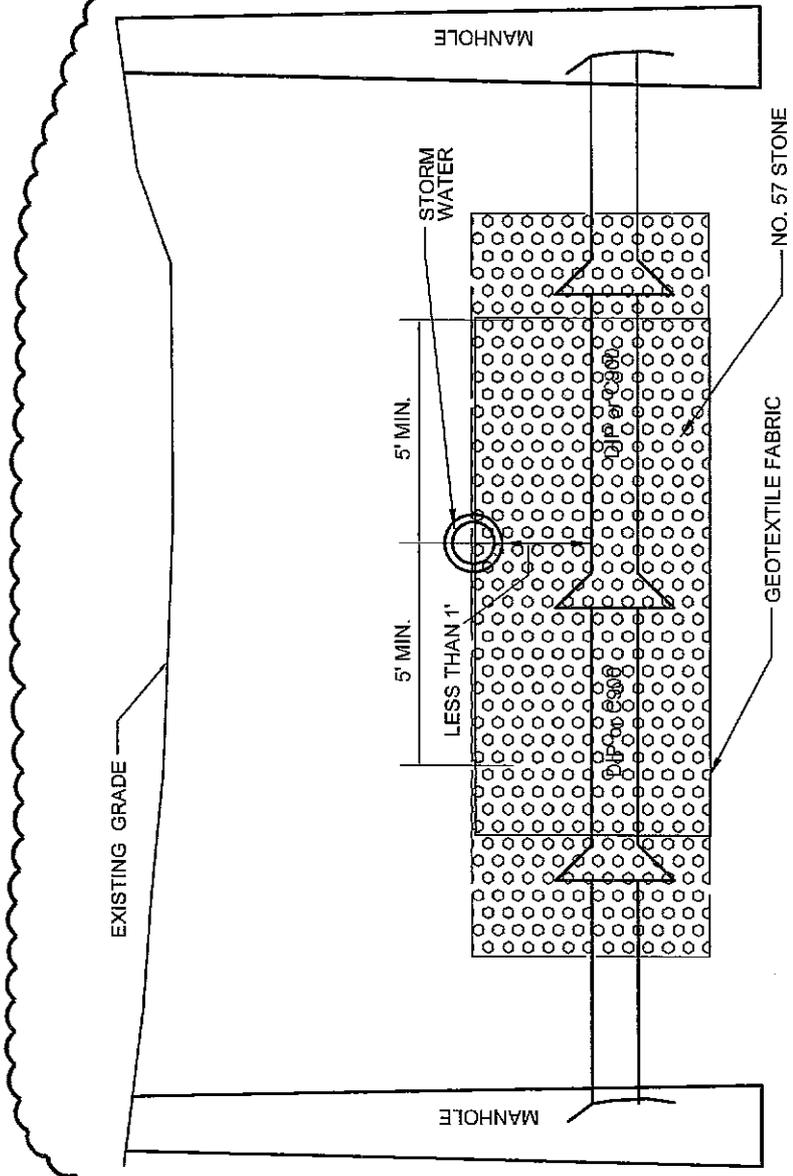
CSK029

STORMWATER & SEWER CROSSING CONFLICT DETAIL

NO SCALE



REFERENCE SHEET C-902



NOTES:
 DIP WITH INTERIOR " PROTECTOR 401 LINING"
 NO. 57 STONE WRAPPED IN GEOTEXTILE FABRIC IN ACCORDANCE WITH AASHTO -M-288 (MINIMUM)

LAYER STATE: C-902

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 DRAWN BY: M.J.H.

CSK030

CONDUITS FOR FLOATS, TRANSDUCER AND PUMP CABLES SHOWN OUT OF POSITION. SEAL WIRES AND CABLES PER SPLICE BOX DETAIL. SEE SITE PLAN FOR LOCATION OF SPLICE BOX.

INVERT OF VENT ELEVATION = 51.00'

CORE DRILL EXISTING WET WELL WALL AND INSTALL LINK SEAL @ PIPE TO CONCRETE SEAL (TYPICAL)

MULTI-CONDUCTOR CABLE PROVIDED BY PUMP SUPPLIER. SUSPEND PER MANUFACTURERS RECOMMENDATIONS. ALL CABLES EXTEND UNSPLICED TO SPLICE BOX (TYPICAL FOR ALL CABLES). S.S. SPRING SNAP FOR A CABLE SUPPORT WITHIN REACH OF HATCH

4' DIA.
EXISTING

12.31'

CORE DRILL EXISTING WET WELL PIPE TO CONCRETE SEAL PRESS-BOOT, KOR-n-SEAL OR EQUAL

HIGH WATER ALARM
ELEV. = 46.50'

8" SDR 35 PVC
INV. ELEV. = 46.50'

LAG PUMP ON ELEV. = 46.00'

LEAD PUMP ON ELEV. = 45.50'

(VOLUME BETWEEN LEAD PUMP ON AND PUMP OFF = 94 GAL.)

1'

PUMP OFF ELEV. = 44.50'

LOW WATER ALARM ELEV. = 43.50'

TEAR DROP MERCURY FLOAT W / WEIGHT (TYP.) (WIDE ANGLE TYPE) 2 FLOATS HIGH LEVEL AND LOW LEVEL. CONTRACTOR TO SUSPEND FLOATS IN A MANNER TO PREVENT TANGLING AND OUT OF INFLUENT PIPE'S FLOW TURBULENCE

2'

BOTTOM ELEV. = 42.19' ±

4.75"

EXISTING PRECAST CONCRETE W

ENDRESS & HAUSER "WATER PILOT" LEVEL TRANSMITTER 0-15 FT H O CONNECTED TO STAINLESS STEEL SUPPORT CABLE WITH 20 LB S.S. WEIGHT (SHOWN OUT OF POSITION, SEE PLAN VIEW ABOVE)

REFERENCE SHEET C-303

LAYER STATE: Model

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
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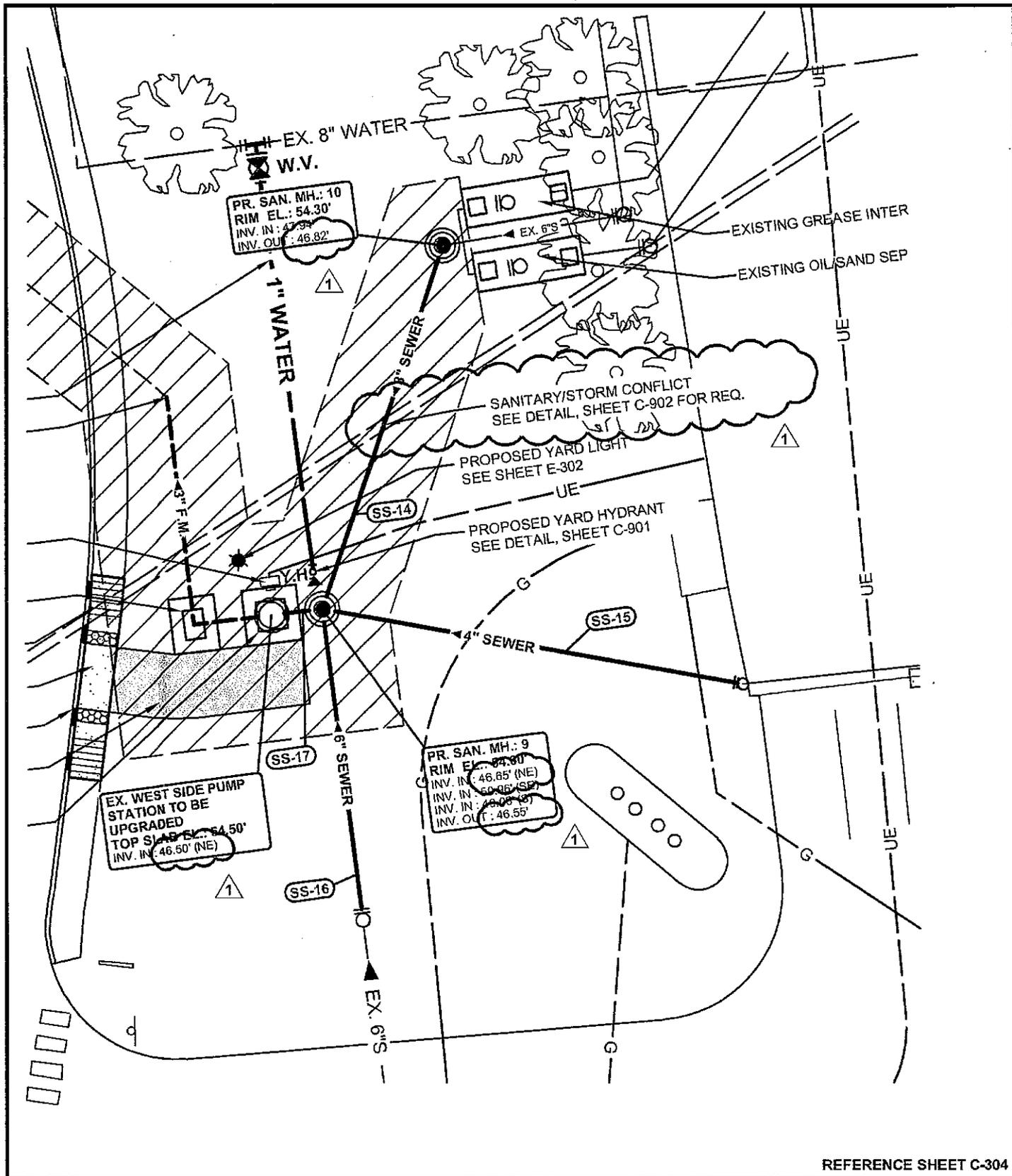
BMG: 2011081.00

SCALE: 3/4" = 1'

DATE: 7-27-12

DRAWN BY: M.J.H.

CSK031



REFERENCE SHEET C-304

LAYERSTATE: C-304

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
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DATE: 7-27-12
DRAWN BY: M.J.H.

CSK032

CONIFEROUS): "TERRA-SORB" AG AT THE RATE OF 32 OZ PER CUBIC YARD OF SOIL MIX.
 2. FOR TREES AND SHRUBS (EXCLUDING CONIFEROUS GROUND COVER): PHC HEALTHY START
 3-4-3 ORGANIC FERTILIZER/SOIL CONDITIONER, SHALL BE APPLIED AT 1/2 LB. PER TRUNK
 DIAMETER (CAL. INCH) FOR TREES.
 FOR SHRUBS USE THE FOLLOWING TABLE:

PLANT SIZE	RATE CUPS	LBS.	#PLANT BAG
1 GALLON	1/2	1/4	100
5 GALLON	1	1/2	50
15 GALLON	2	1	25
24" BALL/BOX	3	1 1/2	16
36" BALL/BOX	5	2 1/2	10
42" BALL/BOX	6	3	8
54" BALL/BOX	8	4	6
72" BALL/BOX	10	5	5

FOR HERBACEOUS AND CONIFEROUS GROUND COVER: DRY ROOTS 2 SHALL BE APPLIED AT THE FOLLOWING RATES:

CONIFEROUS GROUND COVER:			
PLANT SIZE	RATE CUPS	LBS.	#PLANT BAG
15-18" B&B	1 1/2	3/4	37

HERBACEOUS GROUND COVER: 20LBS./1000 SQUARE FEET.

FOR LAWN AND SEEDED AREAS: 10-6-4 50% ORGANIC FERTILIZER AT THE RATE OF 20LBS. PER 1,000 SQUARE FEET (OR AS REQUIRED BY TOPSOIL ANALYSIS REPORT).

10. ALL PLANT MATERIAL MUST COMPLY WITH THE RECOMMENDATIONS AND REQUIREMENTS OF ANSI Z60.1 "STANDARD FOR NURSERY STOCK".
11. PLANT QUANTITIES ARE GIVEN FOR COMPARISON PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING PLANT COUNTS AND SHALL BE RESPONSIBLE FOR PROVIDING ALL PLANT MATERIAL SHOWN ON THE DRAWING. ANY DISCREPANCIES BETWEEN PLANT SCHEDULE QUANTITIES AND PLANS SHALL IMMEDIATELY BE BROUGHT TO THE LANDSCAPE ARCHITECTS ATTENTION PRIOR TO SUBMISSION OF BID. NO SUBSTITUTIONS OF TYPE OF PLANT MATERIAL OR SIZES OF PLANT MATERIAL WILL BE ACCEPTABLE UNLESS APPROVED BY THE LANDSCAPE ARCHITECT. ANY CHANGES TO AN APPROVED LANDSCAPE PLAN MUST BE AUTHORIZED BY THE LANDSCAPE ARCHITECT.
12. APPLY ANTI-DESICCANT PRIOR TO THE ONSET OF WINTER AND AGAIN IN MID-WINTER, USING POWER SPRAY TO PROVIDE AN ADEQUATE FILM OVER TRUNKS, BRANCHES, STEMS, TWIGS, AND FOLIAGE. IF DECIDUOUS TREES OR SHRUBS ARE MOVED IN FULL-LEAF, SPRAY WITH ANTI-DESICCANT AT NURSERY BEFORE MOVING AND AGAIN TWO WEEKS AFTER INSTALLATION.
13. ALL PLANTED TREES, SHRUBS, GROUND COVERS AND ANNUAL FLOWERS, SHALL BE MAINTAINED UNTIL FINAL ACCEPTANCE OF THE COMPLETED CONTRACT, OR WHEN INSTALLATION IS ACCEPTED AND MAINTENANCE IS TRANSFERRED TO OWNER. MAINTENANCE SHALL INCLUDE WATERING, CULTIVATING, CONTROL OF INSECTS, FUNGUS, AND OTHER HORTICULTURAL OPERATIONS NECESSARY FOR THE PROPER GROWTH OF ALL PLANT MATERIAL.
14. PLANT LOCATIONS SHOWN ON THE PLAN ARE APPROXIMATE AND SUBJECT TO FIELD AND UTILITY LOCATIONS.
15. SAPLINGS AND PLANTINGS THAT DO NOT SURVIVE ARE TO BE REPLACED. PLANTS AND TREES SHOULD BE INSPECTED ANNUALLY TO NOTE PLANTINGS THAT MAY NOT SURVIVE AND REPLACED AS NEEDED.



TREES PROTECTION NOTES

1. LIMIT OF WORK LINE TO BE DELINEATED BY SNOW FENCING OR APPROVED EQUAL.
2. PROTECTIVE FENCING TO BE SNOW FENCING OR EQUIVALENT TO PROTECT VEGETATION FROM HEAVY MACHINERY OR CONSTRUCTION OPERATIONS.
3. PROTECTIVE FENCING TO BE ERECTED BEFORE EXCAVATION AND REMOVED UPON COMPLETION OF GRADING.

REFERENCE SHEET L-103

LAYER STATE: WEST AND EAST PARKING L-103

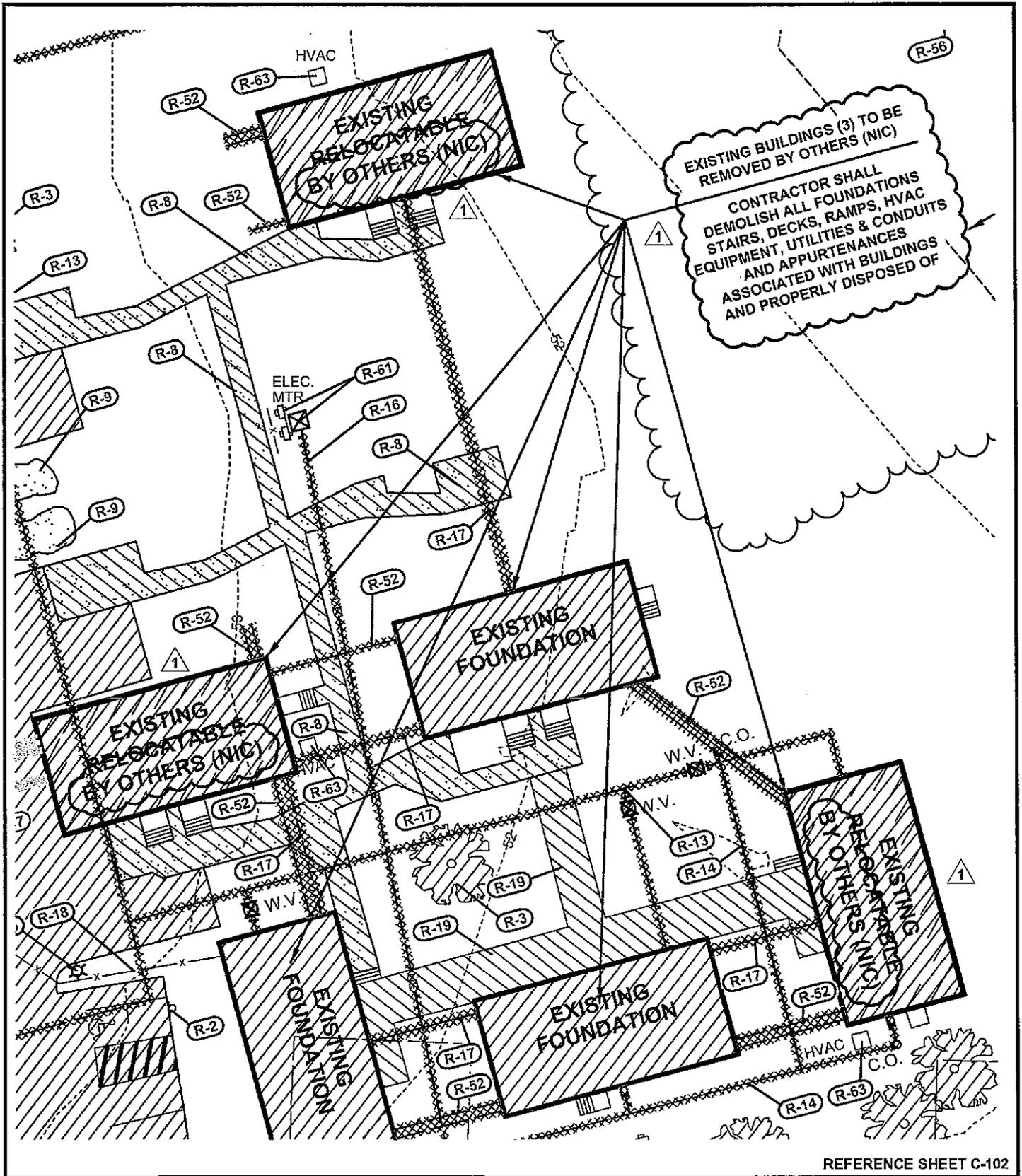
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CSK033



REFERENCE SHEET C-102

LAYER STATE: C-102

**POLYTECH HIGH SCHOOL
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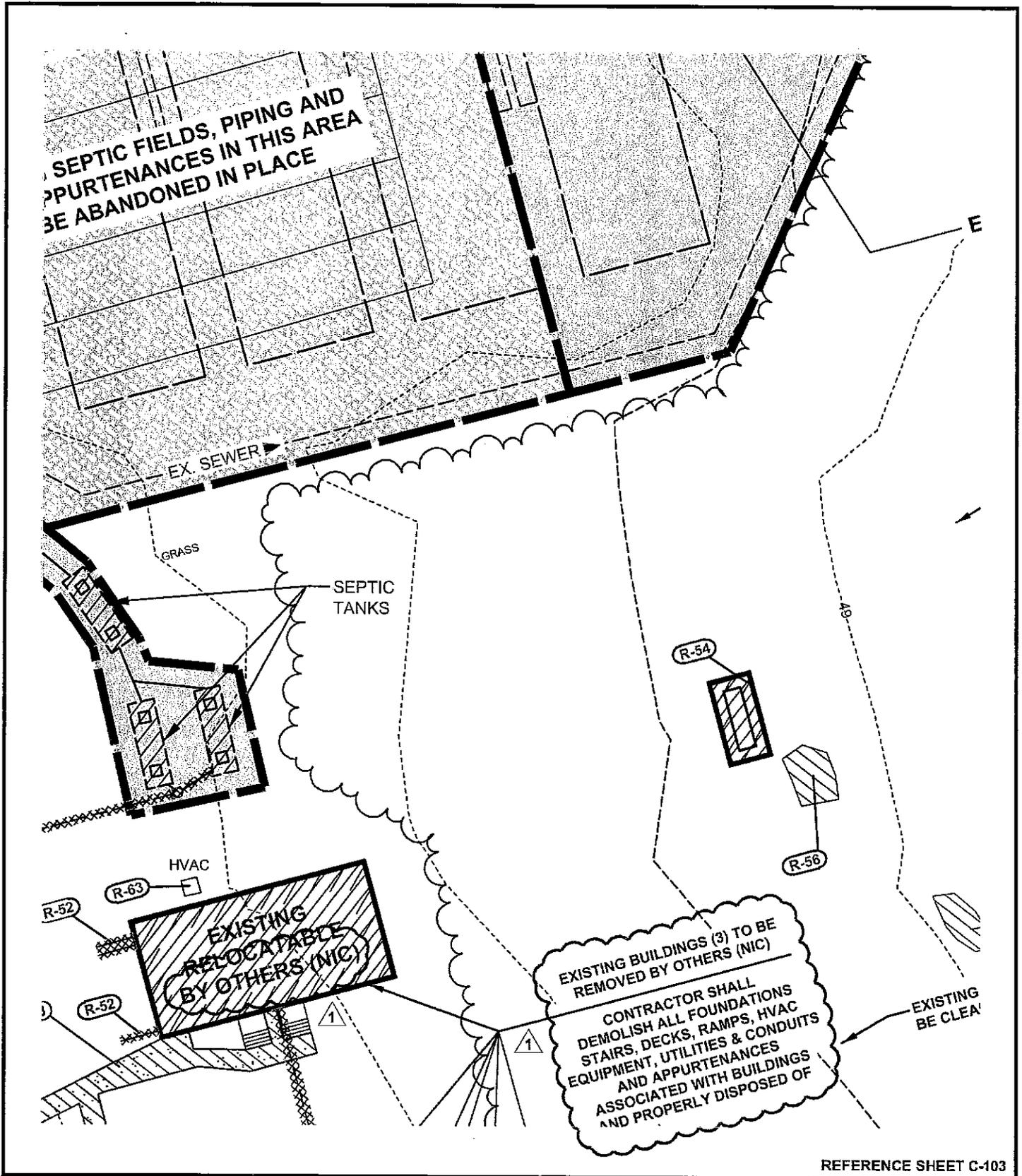
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DATE: 7-27-12

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CSK034



REFERENCE SHEET C-103

LAYER STATE: C-108

**POLYTECH HIGH SCHOOL
ADDITIONS AND RENOVATIONS
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WOODSIDE
KENT COUNTY, DELAWARE



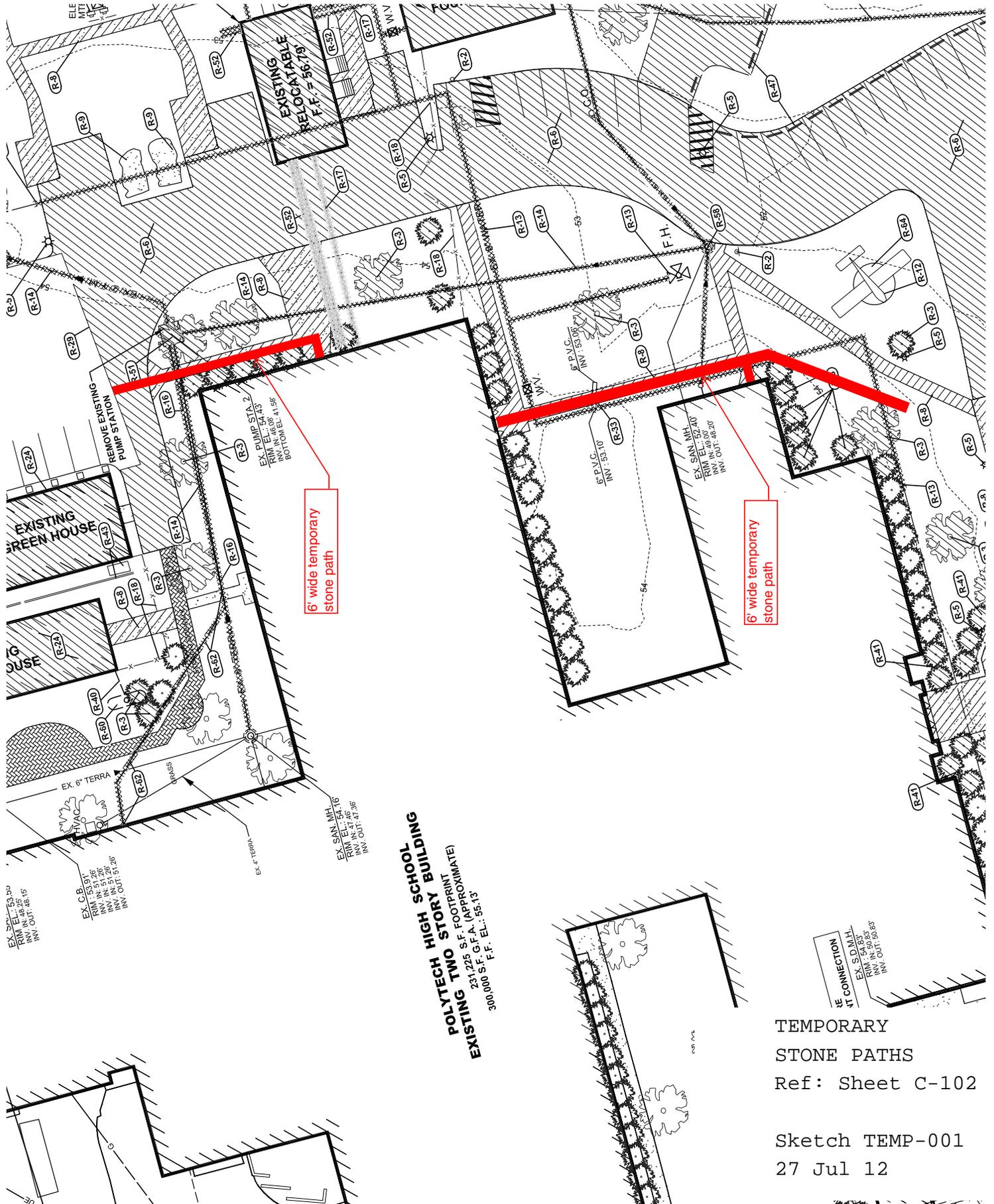
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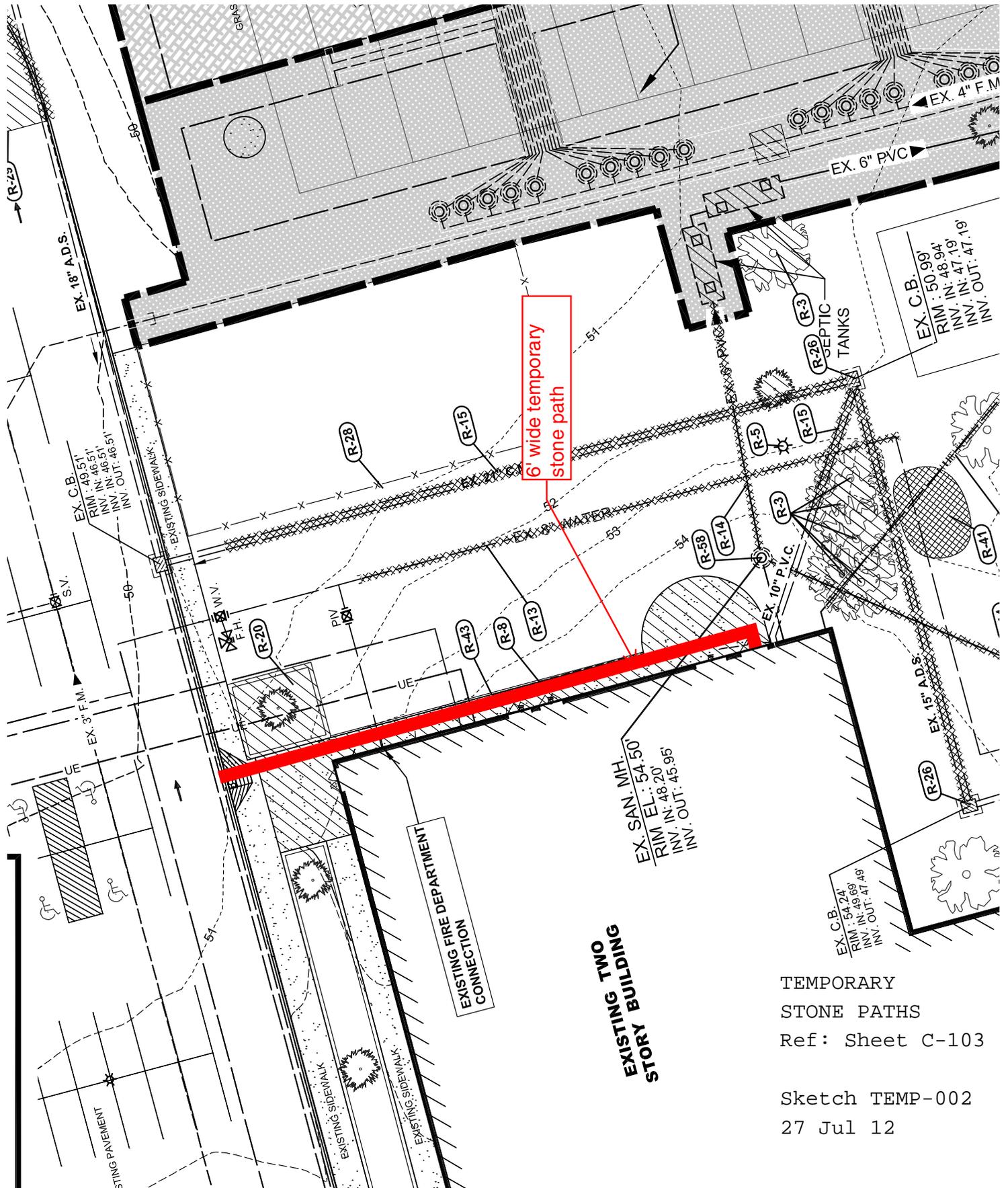
CSK035



POLYTECH HIGH SCHOOL BUILDING
POLYTECH TWO STORY FOOTPRINT
EXISTING 231,225 S.F. FOOTPRINT
EXISTING 300,000 S.F. G.F.A. (APPROXIMATE)
300,000 S.F. G.F.A. (APPROXIMATE)
300,000 S.F. G.F.A. (APPROXIMATE)
300,000 S.F. G.F.A. (APPROXIMATE)

TEMPORARY
STONE PATHS
Ref: Sheet C-102

Sketch TEMP-001
27 Jul 12



**EXISTING TWO
STORY BUILDING**

**EXISTING FIRE DEPARTMENT
CONNECTION**

**6' wide temporary
stone path**

TEMPORARY
STONE PATHS
Ref: Sheet C-103

Sketch TEMP-002
27 Jul 12

