Village of Antioch, Illinois

RESOLUTION NO. 22-14

A RESOLUTION APPROVINGTHE SITE PLAN FOR MAINTENANCE BUILDING AT THE ANTIOCH COMMUNITY HIGH SCHOOL

WHEREAS, the Village of Antioch (hereinafter referred as Village) is considering a proposed a Site Plan for a 2,800 square foot storage maintenance building at the Antioch Community High School.

WHEREAS, the proposed Site Plan for the maintenance building at the Antioch Community High School meets the requirements of the Village's Site Plan Review Ordinance and Downtown Form Based Code.

WHEREAS, the proposed maintenance building will be replacing two existing sheds north of the Antioch Football field; and

WHEREAS, the proposed maintenance building will incorporate a sideyard of 15 feet which conforms with the requirements of the proposed M-1 zoning classification; and

WHEREAS, the Village requires that new site plan's comply with the Village's Site Plan Review Ordinance.

WHEREAS, the applicant's proposed Site Plans for a 2,800 square foot maintenance building went before the Planning and Zoning Commission on February 2, 2022 and received a favorable recommendation from the PZB.

NOW, THEREFORE, BE IT RESOLVED, by the Mayor and Board of Trustees of the Village to Approve a Resolution for the Site Plan Review approval for Antioch Community High School maintenance building located at the property commonly known as 1133 Main Street, Antioch, Illinois.

Scott J. Gartner, Mayor

ATTEST:

Lori K. Romine
Village Clerk

VILLAGE OF ANTIOCH
INCORPORATED
FEB. 29th
1892
LAKE COUNTY, ILL

GEWALT HAMILTON ASSOCIATES, INC.
CONSULTING ENGINEERS
625 Forest Edge Drive, Vernon Hills, IL 60061
TEL 847.478.9700 ▪ FAX 847.478.9701
www.gha-engineers.com

MEMORANDUM

To: Mr. Michael Garrigan, Community Development Director

From: Ms. Sarah A. Ronan, P.E.

Date: December 15, 2021

Re: Site Plan Review Submittal w/ Variance Request
Antioch Community High School Maintenance Building
1133 Main Street, Antioch, IL 60002

Dear Mr. Garrigan:

Enclosed for your review and approval is the Site Plan and EOPC for the Antioch Community High School Maintenance Building and Parking Lot Maintenance, Site Plan Review Application, and Variance Application.

The proposed project consists of a new maintenance facility which includes water service installation from the proposed Maintenance Building to the existing water main; installing a sanitary service, triple basin, sanitary sewer, and a lift station to replace the existing pump; storm sewer collection system discharging to the existing detention pond; pavement maintenance for the existing drive thru lane and parking lot; and other associated improvements.

Per the current Lake County WDO, detention is required for new impervious 0.5 acre or greater. The proposed improvements equate to an additional 0.08 AC of impervious area, therefore no additional detention is proposed for this project. A NPDES permit is required for more than an acre of disturbance. The total disturbance area is 0.68 acre, therefore an NPDES permit is not required but the project will uphold the required best management practices for erosion control.

The proposed location of the building and improvements is in a R1 zone classification. The area in question is located within Parcel 0217200002. The R1 classification requires an internal side yard setback be equal to 10% of the property's average width. The required setback distance would be 73 feet in the current zoning classification. The existing buildings to be replaced are 10 feet from the north property line. The proposed building is located 15 feet from the north property line. Enclosed is a variance application requesting a variance to the side yard setback requirement to follow the M1 classification of 15 feet.

District 117 would like to request a waive of permit fees since they are a governmental body, School District, and the proposed site improvements are on school grounds.

Please review the documents at your earliest convenience. If you have any questions or comments, please feel free to contact our office at 847-478-9700.

Sincerely,

Sarah A. Ronan, P.E.
Gewalt Hamilton Associates, Inc.

Encl: Site Plan Review Application
Variance Application
Engineers Opinion of Probable Cost
Antioch High School Maintenance Building Site Plan

CC: Carissa Smith, P.E. – Gewalt Hamilton Associates, Inc.
Jennifer Hoppen, Community High School District #117

01_4675.114 Antioch Maintenance Building Memorandum_2021.12.14.docx

VILLAGE OF Antioch

AUTHENTIC by nature

SITE PLAN REVIEW APPLICATION

Petition/Development Name Antioch Community High School Maintenance Building

PETITIONERS INFORMATION

Primary Contact	Mailing Address	City, State, Zip
Sarah A Ronan, PE	625 Forest Edge Drive	Vernon Hills, IL 60061
Phone	**E-Mail**	**Cell Phone**
847-821-6279	sronan@gha-engineers.com	847-946-5808

SITE INFORMATION

Acres	Address/Location
16 AC	1133 Main Street, Antioch, IL 600002

PIN 0217200002, 0217202005, 0217202006

Existing Land Use	Current Zoning
High School; Manufacturing Limited	R-1 and M-1

Brief description of proposed zoning/use/development

Proposing to use the M-1 zoning for the entire site as today the area in its whole is owned and operated by the school and the current development falls under M-1 zoning including the area that is actually called out as an R-1 zone. This propject is only updating the Maintenance Building and Parking Lot Maintenance.

Land Owner	Address	City, State. Zip
School Dist 117	1133 Main St	Antioch, IL 60002
Phone	**E-Mail**	**Cell Phone**
847-395-9001	jennifer.hoppen@chsd117.org	N/A

Attorney	Address	City, State, Zip
Phone	**E-Mail**	**Cell Phone**

Engineer	Mailing Address	City State, Zip
Gewalt Hamilton Associates	625 Forest Edge Drive	Vernon Hills, IL, 60061
Phone	**E-Mail**	**Cell Phone**
847-478-9700	csmith@gha-engineers.com	847-821-6259

Adjacent Properties

Owner	Address	Zoning
PPC Antioch, IL 60002	90 McMillen Rd	BP
PPC Antioch, IL 60002	90 Thorne Rd	BP
Tom Koziol	0 McMillen Rd	M1
Robert R Shaw	151 S Ram Rd	M1
Koziol Inc	150 S Ram Rd	M1
1027 Anita Ave Partnership	151 IL Route 173	M1
Wisconsin Central LTD	0 IL Route 173	M1
Acre 32 LLC/ PO Box 29046	236 IL Route 173	M1
LAC Properties LLC	226 IL Route 173	M1
Mark N Scarpelli	222 W IL Route 173	M1

Attach additional addresses on additional exhibit if required.

I hereby affirm and agree I have full legal capacity to authorize the aforesaid application/petition and that all information herewith listed and any attached exhibits are true and correct to the best of my knowledge. The authorized signer invites the Village of Antioch's representatives to make all reasonable inspections, investigations and pictures of the subject property during the processing period of the Petition. We further agree to pay all fees related to this application as per Village policy, including engineering, legal, plan review or any other ancillary fee as per policy that may arise during the entitlement process. I further understand that these fees include publication expenses.

I further realize the date of the meeting will be established by Village Staff and will be notified of this date once a full application has been received by the Community Development Department.

12/14/2021

SIGNATURE OF OWNER OR AUTHORIZED AGENT

Date

VILLAGE OF
Antioch
AUTHENTIC by nature

VARIANCE APPLICATION

Petition/Development Name Antioch Community High School Maintenance Building

PETITIONERS INFORMATION

Primary Contact	Mailing Address	City, State, Zip
Sarah A Ronan, PE	625 Forest Edge Drive	Vernon Hills, IL 60061
Phone	**E-Mail**	**Cell Phone**
847-821-6279	sronan@gha-engineers.com	847-946-5808

SITE INFORMATION

Acres	Address/Location
16 AC	1133 Main Street, Antioch, IL 600002

Property Index Number 0217200002, 0217202005, 0217202006

Existing Land Use	Current Zoning
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847-395-9001	jennifer.hoppen@chsd117.org	N/A
Attorney	**Address**	**City, State, Zip**
Phone	**E-Mail**	**Cell Phone**

Engineer	Mailing Address	City State, Zip
Gewalt Hamilton Associates	625 Forest Edge Drive	Vernon Hills, IL, 60061
Phone	**E-Mail**	**Cell Phone**
847-478-9700	csmith@gha-engineers.com	847-821-6259

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I further acknowledge that it is the applicant's responsibility to notify property owners within 250 feet of the subject property via certified mail with return receipt of the time, place, and date of any Planning and Zoning Commission public hearing regarding this petition. I further realize the date of the meeting will be established by Village Staff and will be notified of this date once a full application has been received by the Community Development Department.

12/14/2021

SIGNATURE OF OWNER OR AUTHORIZED AGENT — Date

ENGINEER'S OPINION OF PROBABLE COST

Antioch High School Maintenance Building
School District 117
Village of Antioch
GHA Project #: 4675.114

Date: 12/14/2021
Prepared by: Sarah Ann Ronan, PE
Checked by: Carissa A. Smith, PE

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Preliminary EOPC

ITEM NO	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	VALUE
20200100	Earth Excavation	240.0	CY	$44.00	$10,560.00
20201200	Removal and Disposal of Unsuitable Material	50.0	CY	$32.00	$1,600.00
20800150	Trench Backfill	51.0	CY	$52.00	$2,652.00
21001000	Geotechnical Fabric For Ground Stabilization	970.0	SY	$3.00	$2,910.00
21101600	Topsoil Furnish and Place Variable Depth	1920.0	SY	$7.50	$14,400.00
21400100	Grading and Shaping Ditches	173.0	FT	$15.00	$2,595.00
25000110	Seeding, Class 1A	0.4	AC	$25,000.00	$10,000.00
25000400	Nitrogen Fertilizer Nutrient	36.0	LBS	$11.00	$396.00
25000500	Phosphorus Fertilizer Nutrient	36.0	LBS	$11.00	$396.00
25100125	Mulch, Method 3A	1920.0	SY	$7.00	$13,440.00
25100630	Erosion Control Blanket	1920.0	SY	$3.50	$6,720.00
28000500	Inlet and Pipe Protection	3.0	EA	$275.00	$825.00
30300001	Aggregate Subgrade Improvement	50.0	CY	$35.00	$1,750.00
35102000	Aggregate Base Course, Type B, 8"	970.0	SY	$24.00	$23,280.00
35800100	Preparation of Base	970.0	SY	$1.50	$1,455.00
40600290	Bituminous Materials (Tack Coat)	218.0	LBS	$0.75	$163.50
40600982	Hot-Mix Asphalt Surface Removal - Butt Joint	10.5	SY	$18.00	$189.00
40603080	Hot-Mix Asphalt Binder Course, IL-19.0, N50	224.0	TN	$72.00	$16,128.00
40604060	Hot-Mix Asphalt Surface Course, Mix 'D', IL-9.5, N50	98.0	TN	$78.00	$7,644.00
44000100	Pavement Removal	2876.0	SY	$15.00	$43,140.00
54213657	Precast Reinforced Concrete Flared End Section 12"	2.0	EA	$975.00	$1,950.00
550A2320	Storm Sewers, Rubber Gasket, Class A, Type 1 12"	148.0	FT	$68.00	$10,064.00
56100500	Water Main 4"	20.0	FT	$100.00	$2,000.00
56104800	Water Valves 4"	1.0	EA	$1,750.00	$1,750.00
60108104	Pipe Underdrains, Type 1, 4"	202.0	FT	$25.00	$5,050.00
60200105	Catch Basins, Type A, 4'-Diameter, Type 1 Frame, Open Lid	2.0	EA	$3,500.00	$7,000.00
60236200	Inlets, Type A, Type 8 Grate	1.0	EA	$1,550.00	$1,550.00
67100100	Mobilization	1.0	LS	$10,000.00	$10,000.00
X0322463	Connection to Existing Sewer	2.0	EA	$1,200.00	$2,400.00
X6022810	Manholes, Sanitary, 4'-Diameter, Type 1 Frame, Closed Lid	2.0	EA	$4,750.00	$9,500.00
X6026623	Valve Box	1.0	EA	$950.00	$950.00
X7010216	Traffic Control and Protection (Special)	1.0	LS	$5,000.00	$5,000.00
X7240600	Remove and Re-Erect Existing Sign	3.0	EA	$175.00	$525.00
Z0044650	Pressure Connection 8" x 4"	1.0	EA	$4,000.00	$4,000.00
Z0056800	Sanitary Sewer 6"	642.0	FT	$175.00	$112,350.00
-	Exploration Excavation	3.0	EA	$500.00	$1,500.00
-	Coir Logs	20.0	FT	$5.00	$100.00
-	Lift Station	1.0	EA	$50,000.00	$50,000.00
-	Triple Basin	1.0	EA	$1,400.00	$1,400.00
-	Building Demolition	1.0	LSUM	$50,000.00	$50,000.00
-	Concrete Removal	35.0	SY	$25.00	$875.00
-	Aggregate Removal	188.0	SY	$15.00	$2,820.00
-	Scoreboard to be Relocated	1.0	EA	$750.00	$750.00

ENGINEER'S OPINION OF PROBABLE COST

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Antioch High School Maintenance Building
School District 117
Village of Antioch
GHA Project #: 4675.114

Date: 12/14/2021
Prepared by: Sarah Ann Ronan, PE
Checked by: Carissa A. Smith, PE

Preliminary EOPC

ITEM NO	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	VALUE
-	Lift Station Removal	1.0	EA	$5,000.00	$5,000.00
				TOTAL:	**$446,777.50**

Detailed Description: This estimate is based on Engineering Plans dated 12/14/2021.
Contingency is built into each item unit value.

*Since Gewalt-Hamilton Associates Inc. Has No Control Over the Cost of Labor, Materials, or Equipment, or Over the Contractor's Methods of Determining Prices, or Over Competitive Bidding of Market Conditions, Opinions of Probable Costs, as Provided for Herein, Are to be Made on the Basis of Experience and Qualifications and Represent the Best Judgement as a Design Professional Familiar with the Construction Industry. Gewalt-Hamilton Associates, Inc., Cannot and Does Not Guarantee That Proposals, Bids, or The Construction Costs Will Not Vary From Opinions of Probable Cost Prepared for the Owner.

ENGINEERING PLANS FOR

ANTIOCH COMMUNITY HIGH SCHOOOL MAINTENANCE BUILDING RENOVATIONS

1133 MAIN STREET
ANTIOCH, ILLINOIS
60002

STANDARD SYMBOLS

FEATURE	EXISTING	PROPOSED
BUFFALO BOX		
BUSH/SHRUB		
CATCH BASIN		
CLEANOUT		C.O.
COMBINE SEWER LINE		
CONTOUR	708	708
CULVERT		
DITCH/SWALE		
ELECTRIC LINE	E	E
ELECTRIC MANHOLE		
FENCE	X X X X	X X X X
FIRE HYDRANT		
FLARED END SECTION		
GAS LINE	G	G
GAS MANHOLE		
GAS VALVE		
INLET		
LIGHT POLE		
OVERHEAD WIRES	A	A
POWER POLE		
R.O.W LINE		
R.O.W MARKER		
SANITARY FORCEMAIN LINE		
SANITARY SEWER LINE		
SANITARY SEWER MANHOLE		
SIGN		
SPOT ELEVATION	x850.00	x850.0
STORM SEWER LINE		
STORM SEWER MANHOLE		
TELEPHONE LINE	T	T
TELEPHONE MANHOLE		
TELEPHONE BOX/PEDESTAL		
TREE-CONIFEROUS (SIZE/TAG#)	345	345
TREE-DECIDUOUS (SIZE/TAG#)	12"	12"
VALVE BOX		
VALVE VAULT		
WATER VALVE		
WATERMAIN LINE	W	W

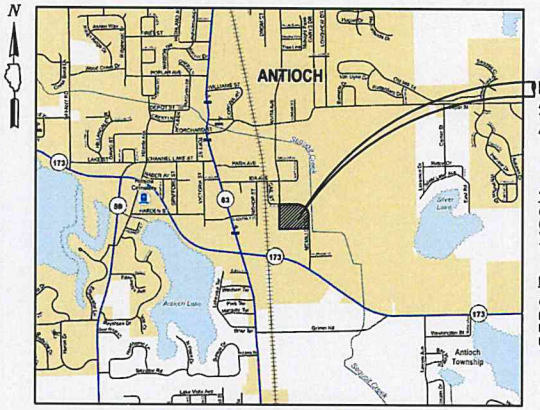
EXISTING UTILITIES: WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATEVER IN RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. HE SHALL ALSO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES, DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THEM.

CONTRACTOR IS RESPONSIBLE FOR CONTACTING J.U.L.I.E. AT 1-800-892-0123 AND MUST ACQUIRE A DIG NUMBER A MINIMUM OF 72 HOURS PRIOR TO ANY WORK BEING DONE.

NOTE: CONSTRUCTION MEANS, METHODS AND JOB SITE SAFETY IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR

J.U.L.I.E
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
CALL 811

811 Know what's below. Call before you dig.



LOCATION MAP
(Not to Scale)

PROJECT LOCATION
ANTIOCH COMMUNITY HIGH SCHOOL
1133 MAIN STREET
ANTIOCH, ILLINOIS 60002

BENCHMARK:
SOURCE BENCHMARK: LAKE COUNTY BENCHMARK 2-7
(2ND REFERENCE BENCHMARK)
CHISELED SQUARE ON SOUTH SIDE CONCRETE SIGNAL BASE AT THE NORTHWEST CORNER OF
ILLINOIS ROUTE 83 AND ILLINOIS ROUTE 173
ELEVATION: 795.12 NAVD;88

SHEET INDEX

1. TITLE SHEET
2. EXISTING CONDITIONS/DEMOLITION PLAN
3. GEOMETRIC PLAN
4. UTILITY PLAN
5. GRADING PLAN
6. SOIL EROSION AND SEDIMENT CONTROL PLAN
7. SOIL EROSION AND SEDIMENT CONTROL DETAILS
8. GENERAL NOTES
9. DETAILS
10. DETAILS

TOPOGRAPHIC SURVEY BY:
GEWALT HAMILTON ASSOCIATES, INC.
625 FOREST EDGE DRIVE
VERNON HILLS, ILLINOIS 60061
TELEPHONE: 847-478-9700

PROFESSIONAL DESIGN FIRM LICENSE:
GEWALT HAMILTON ASSOCIATES, INC.
DESIGN FIRM - LAND SURVEYOR/PROF ENG
LICENSE NUMBER: 184.000922-0010
EXPIRES: 4/30/2023

PLANS PREPARED FOR:
ANTIOCH COMMUNITY HIGH SCHOOL
1133 MAIN STREET
ANTIOCH, ILLINOIS 60002
TELEPHONE: 847-395-1421

COORDINATING/PERMITTING AGENCIES:

VILLAGE OF ANTIOCH	1-847-395-1000
ILLINOIS SCHOOL DISTRICT 117	1-847-395-9001
LAKE COUNTY STORMWATER MANAGEMENT COMMISSION	1-847-377-7700
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL SANITARY SEWER PERMIT	1-217-782-2027
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF PUBLIC WATER SUPPLIES	1-217-782-3397
ILLINOIS DEPARTMENT OF NATURAL RESOURCES OFFICE OF WATER RESOURCES	1-847-608-3116

SIGNED: CARISSA SMITH P.E.
DATE: DECEMBER 14, 2021
ILLINOIS LICENSE NO.: 062-063353
EXPIRATION DATE: FEBRUARY 28, 2022

CARISSA A. SMITH 062-063353 LICENSED PROFESSIONAL ENGINEER STATE OF ILLINOIS

ISSUE FOR PERMIT REVIEW: 12-14-2021

GHA GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive ■ Vernon Hills, IL 60061
TEL 847.478.9700 ■ FAX 847.478.9701

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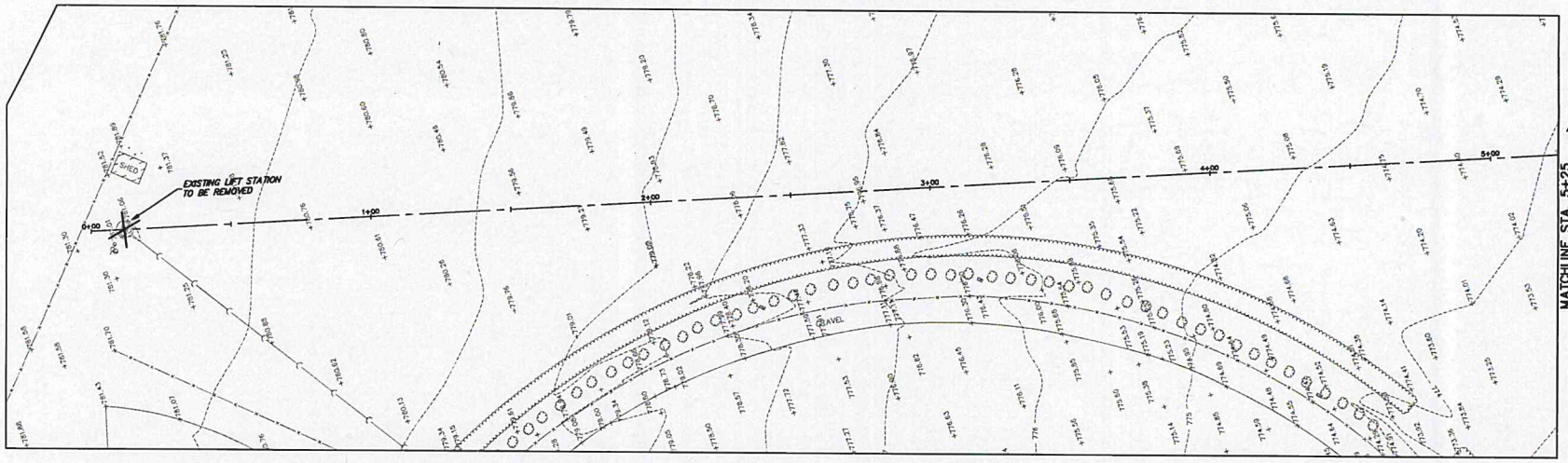
TITLE SHEET
ANTIOCH HIGH SCHOOL MAINTENANCE BUILDING
SCHOOL DISTRICT 117
1133 MAIN STREET, ANTIOCH, ILLINOIS 60002

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

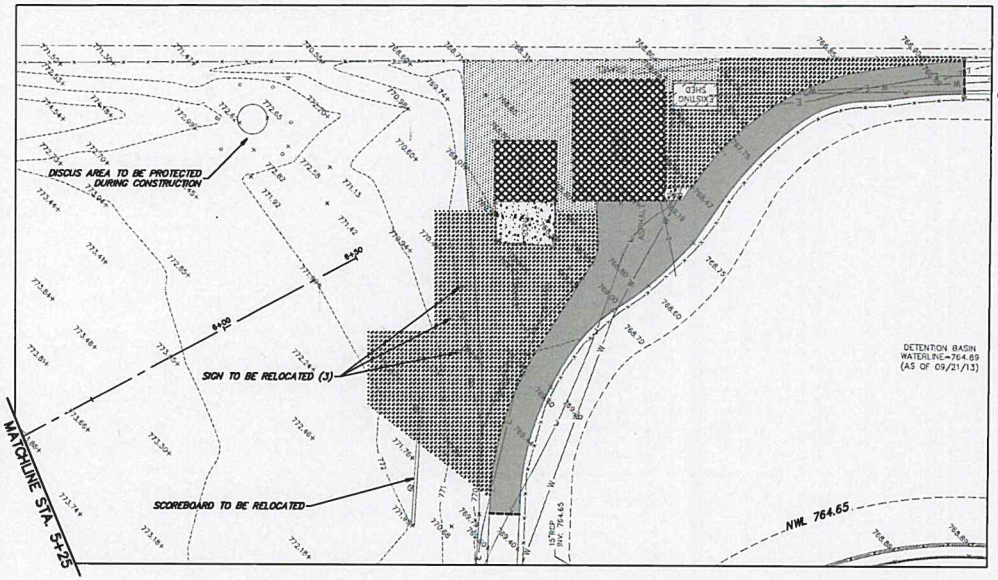
FILE: 4675.114-OT.dwg
DRAWN BY: JMB DATE 12/14/2021
CHECKED BY: SAR DATE 12/14/2021
GHA PROJECT # 4675.114
SCALE: N.T.S.
SHEET NUMBER 1 OF 10 SHEETS



GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 inch = 20 ft.



REMOVAL LEGEND

- AGGREGATE REMOVAL
- BUILDING DEMOLITION
- PAVEMENT REMOVAL FULL DEPTH
- EARTH EXCAVATION
- CONCRETE REMOVAL
- X STRUCTURE REMOVAL
- PAVEMENT SAWCUT

EXISTING CONDITION AND DEMOLITION NOTES

1. Prior to starting any construction, provide soil erosion and sediment control devices as shown on the plans and as required per IEPA NPDES guidelines. Refer to notes and details throughout the entire plan set.
2. Prior to starting any excavation work, provide tree protection, preservation and root pruning as shown on the plans and notes throughout the entire plan set.
3. Contractor shall refer to subsurface soil exploration report.
4. Temporary stone or asphalt pathways shall be provided as needed throughout the course of construction to facilitate safe pedestrian and vehicular movement. The longitudinal slope of such paths shall not exceed 5% and cross slopes shall not exceed 2%. Provide 6" CA-6 base and 2" surface asphalt.
5. The existing facilities will remain open and actively used. Contractor shall refer to mechanical, electrical and architectural plans and coordinate with utility companies to ensure continuous utility services during demolition and transitioning of services.
6. The contractor is responsible for the demolition and disposal of all existing improvements onsite necessary to complete the job. These improvements include, but are not limited to, existing pavements, curbs, sidewalks, utilities, lighting, light bases, manholes, fences, foundations, and other structures within the work area. Excavate and grade to proposed pavement and building subbase grades. (Refer to foundation plans for proposed building subbase grades.) These items shall be completely removed and legally disposed of offsite.
7. Remove or abandon existing utilities as shown. Utilities that are removed, unless otherwise noted, shall be backfilled with CA-6 crushed stone in lifts of 8" or less and compacted to 95% Modified Proctor density. Utilities to be abandoned shall be plugged at both ends with a minimum of 2 feet long non-shrink concrete/mortar plugs. Manhole structures to be abandoned shall have the top section removed, sewers bulkheaded with concrete and backfilled with CA-6 crushed stone.
8. Temporarily remove, store and protect sign and posts within affected work zone for reinstallation. Coordinate onsite storage with Property Owner.
8. Temporarily remove, store and protect scoreboard and posts within affected work zone for reinstallation. Coordinate onsite storage with Property Owner.
9. The Contractor shall include all associated costs with the removal, transport, disposal, testing and certification of "Uncontaminated Soil" as defined under 415 ILCS 5/3.160 including any fees, taxes, or surcharges charged by or through the operator(s) of Clean Construction or Demolition Debris Fill Operations or Uncontaminated Soil Fill Operations for the acceptance of Uncontaminated Soil.
10. There are multiple irrigation heads within the construction area. The Contractor shall protect these during construction. Any damage to the system shall be repaired at the Contractors expense.
11. Existing wells and irrigation system that is to remain shall be protected. Prior to site demolition, the Contractor shall coordinate with District 117 staff on any work related to irrigation system, including to locate, disassemble, disconnect, and salvage any portion of the sprinkler system. Contractor shall make necessary programming and wiring modifications to make operational and test accordingly. Any damage to irrigation system to remain shall be repaired by the Contractor at their own cost.
12. Contractor shall carefully remove and store existing fence and posts for discus pad as shown on the plans.

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625 Forest Edge Drive ■ Vernon Hills, IL 60061
TEL 847.478.9700 ■ FAX 847.478.9701

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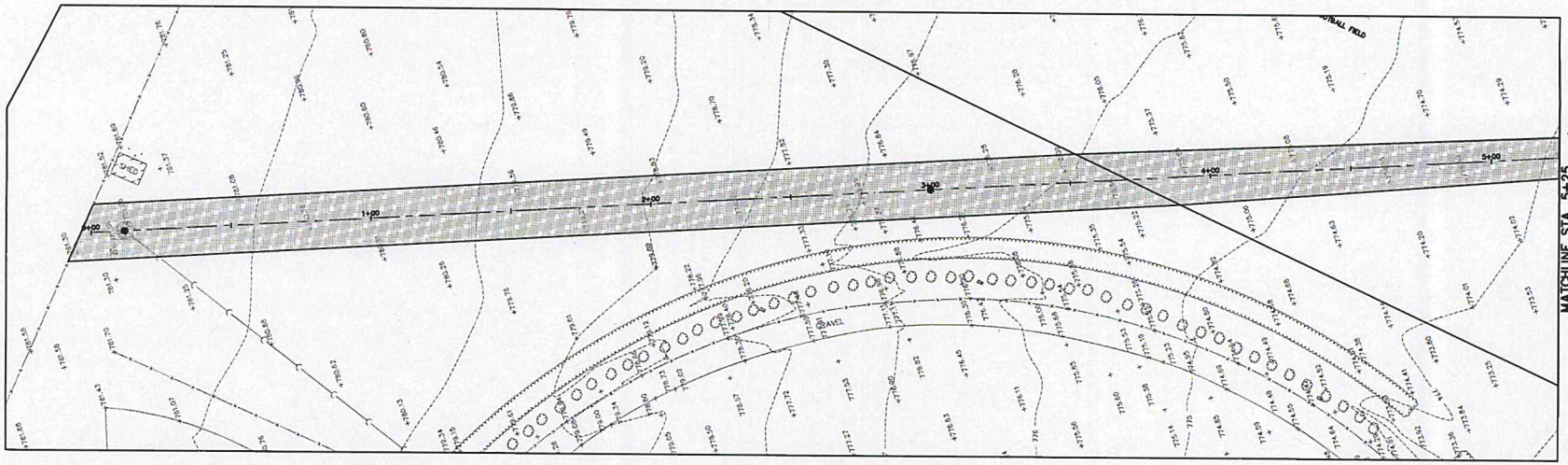
EXISTING CONDITIONS/DEMOLITION PLAN

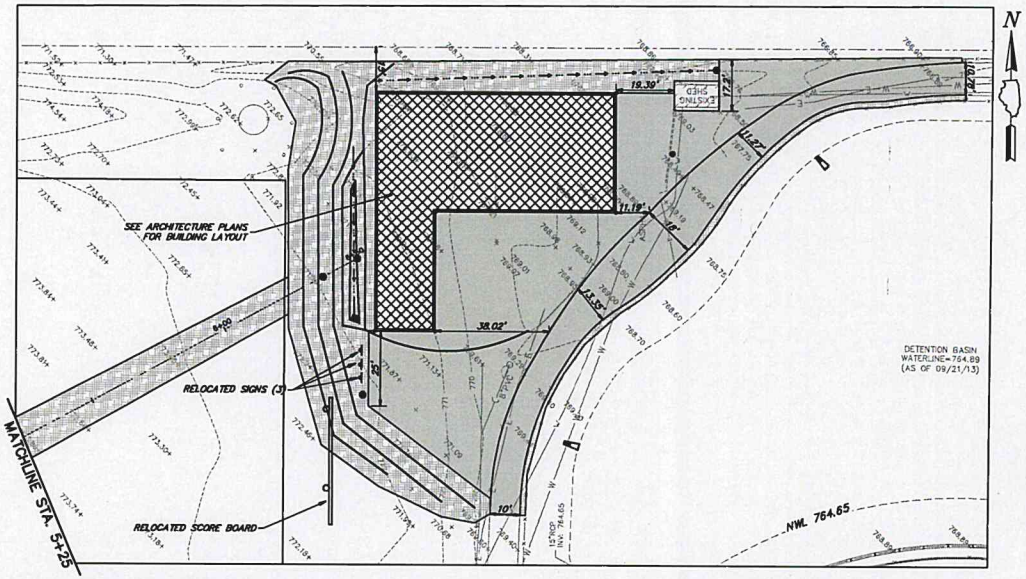
ANTIOCH HIGH SCHOOL MAINTENANCE BUILDING
SCHOOL DISTRICT 117
1133 MAIN STREET, ANTIOCH, ILLINOIS 60002

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 4675.114_PR1.dwg
DRAWN BY: SAR DATE: 12/14/2021
GHA PROJECT # 4675.114
CHECKED BY: CAS DATE: 12/14/2021
SCALE: 1"=20'



GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.



PROPOSED LEGEND

- 1.75" HMA SURFACE COURSE
  4" HMA BINDER COURSE
  8" CA-6 BASE COURSE
- PROPOSED BUILDING
  SEE ARCHITECTURAL PLANS
- TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH
  SEEDING, CLASS 1
- SIGN

GEOMETRIC AND PAVING PLAN

1. All pavement dimensions are to edge of pavement, unless otherwise noted. E=edge of pavement, B=back of curb, F=face of curb. Radii dimensions are to back of curb.
2. Provide 1.90% cross slope and 4.5% maximum longitudinal slope on all sidewalks and pedestrian path ways unless otherwise indicated. Illinois accessibility code requires a maximum constructed cross slope of 2.00% and longitudinal slope of 5.00%.
3. Install bituminous pavement as shown. Refer to detail sheet for specific pavement sections and general note sheet for construction, testing and compaction requirements.
4. Install PCC pavement as shown. Refer to detail sheet for specific pavement section and general notes for construction, testing and compaction requirements.
5. Install new signs and relocated signs using 2" galvanized square tube post and telescoping post sleeve per IDOT standard.
6. Contractor shall install temporary erosion control seed and blanket as necessary to meet soil erosion and sediment control requirements. Refer to notes and details throughout the plan set for specific material requirements.
7. For final restoration, the contractor shall be responsible for restoring all disturbed turf areas and proposed turf areas as follows:
   a. Prior to placement of topsoil restoration area subgrade material shall be rototilled and re-compacted to a maximum of 80% standard proctor to a depth of 6".
   b. Spread a minimum of 6" of existing site salvaged screened topsoil or new pulverized topsoil on all disturbed areas. Compact to 80% standard proctor.
   c. Topsoil must be free of litter, brush, rocks and earth clods of greater than 1 inch in any dimension. Contain between 1%-10% organic matter, 12%-50% clay, and less than 55% sand content. pH shall be between 6.0 and 8.0.
   d. Seed restoration areas as follows:
      - IDOT Class 1 seed. (Lawn mixture)
      - Fertilizer shall be applied following IDOT requirements.
      - Erosion control blanket shall be North American Green S75 or approved equal installed following manufacturer guidelines.
   h. Contractor shall be responsible for watering the restored area per IDOT specifications for a duration of 30 days prior to the Owner's final review and acceptance. If restoration has not shown a "catch" or uniform stand, the contractor shall repeat reseeding or resodding until a uniform stand is achieved.
13. Once restoration has been completed, the contractor shall remove erosion control devices. Silt fence trenches shall be backfilled and restored in kind. Storm structures shall be cleaned of debris.
14. Install parking lot and concrete pavement as shown. Where normal duty pavement replacement is indicated, the existing stone base shall be regraded to meet the 4" asphalt depth and recompacted and proof rolled prior to repaving.
15. Hot mix Asphalt (HMA) paving -- After passing proof roll, the contractor shall string line the proposed pavement area. Any areas that do not meet minimum pavement cross slope (1.0%) will be corrected, re-compacted and re-proof rolled.

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TEL 847.478.9700 ■ FAX 847.478.9701

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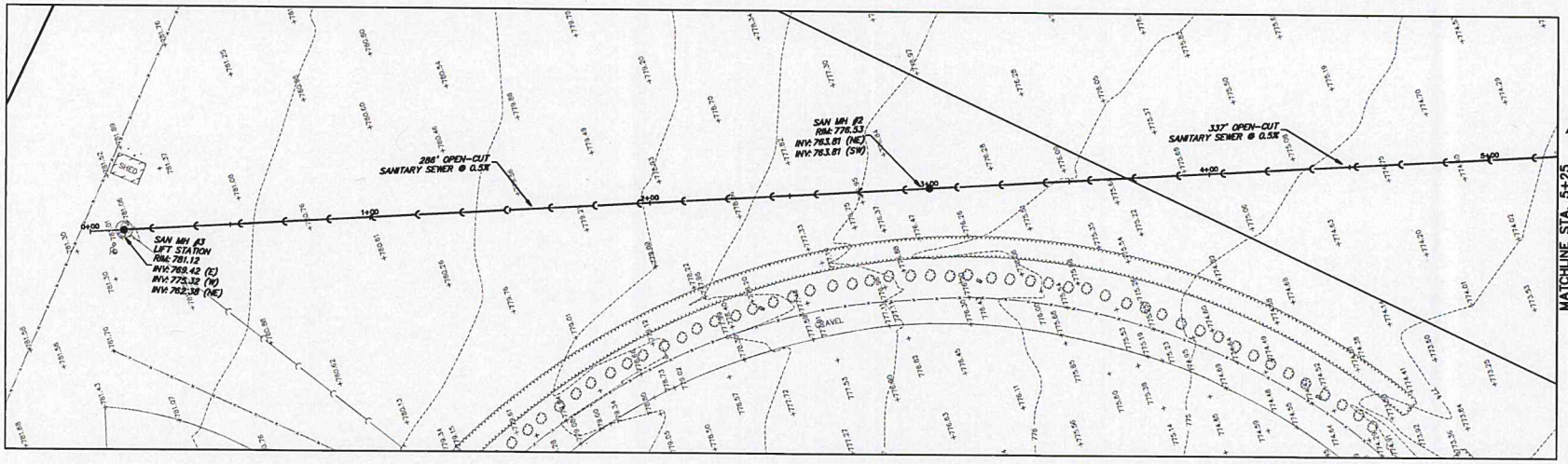
GEOMETRIC PLAN

ANTIOCH HIGH SCHOOL MAINTENANCE BUILDING
SCHOOL DISTRICT 117
1133 MAIN STREET, ANTIOCH, ILLINOIS 60002

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 4675.114_PR1.dwg
DRAWN BY: SAR DATE: 12/14/2021
GHA PROJECT # 4675.114
CHECKED BY: CAS DATE: 12/14/2021
SCALE: 1"=20'
SHEET NUMBER: 3 OF 10 SHEETS



GRAPHIC SCALE

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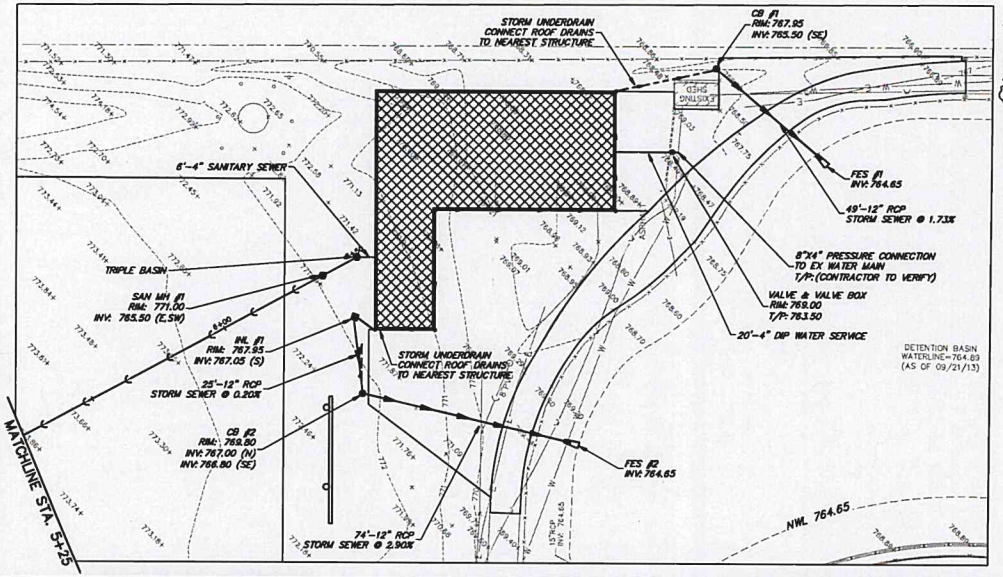
(IN FEET)
1 inch = 20 ft.



UTILITY PLAN LEGEND

	EXISTING STORM SEWER
	EXISTING SANITARY SEWER
	EXISTING WATERMAIN
	PROPOSED STORM SEWER
	PROPOSED SANITARY SEWER
	PROPOSED WATERMAIN

EXISTING	PROPOSED	
		STORM MANHOLE
		STORM CATCHBASIN
		STORM INLET
		FLARED END SECTION
		SANITARY MANHOLE
		VALVE VAULT
		VALVE BOX
		FIRE HYDRANT
		BUFFALO BOX
		STREET LIGHT
		POWER POLE
		SIGN

UTILITY PLAN NOTES

1. The contractor shall verify the exact location and elevation of existing utilities prior to initiating work. Any discrepancies found between the information noted on the plans and actual field conditions, or any conflicts with proposed improvements shall be reported to the engineer immediately. The contractor shall not proceed any further until given written clarification on how to proceed.
2. Install storm sewer as shown. Refer to Storm Sewer requirement table on General Notes Sheet for pipe material, joint, frame and grate, stone bedding and testing requirements.
3. Install sanitary sewer as shown. Refer to Sanitary Sewer requirement table on General Notes Sheet for pipe material, joint, frame and grate, stone bedding and testing requirements.
4. Install watermain as shown. Refer to Water Main requirement table on General Notes Sheet for pipe material, joint, frame and grate, valves, fire hydrant, stone bedding and testing requirements.
5. Contractor shall provide the following as-constructed documents at the conclusion of the project:
   a. Water Main
      - As-constructed location of all bends, tees, valves, copper unions, etc. (measured dimension from two fixed above grade objects are required for buried objects)
      - Rim and top of pipe elevations for all structures
      - Provide all testing documentations.
   b. Sanitary Sewer
      - As-constructed locations of structures, service connections, cleanouts.
      - Rim and invert elevations.
      - Color video with transcript required for new sewer lines installed.
   c. Storm Sewer
      - As-constructed locations of structures, service connections, cleanouts.
      - Rim and invert elevations.
      - Color video with transcript required for new sewer lines installed.
6. Refer to MEP and Architectural plans for electric and gas requirements and final routing.
7. The Contractor shall include all associated costs with the removal, transport, disposal, testing and certification of "Uncontaminated Soil" as defined under 415 ILCS 5/3.160 including any fees, taxes, or surcharges charged by or through the operator(s) of Clean Construction or Demolition Debris Fill Operations or Uncontaminated Soil Fill Operations for the acceptance of Uncontaminated Soil.
8. All connections to existing structures shall be machined cored holes.
9. Contractor shall ensure positive drainage to all inlets and catchbasins. Areas of surface ponding shall be corrected by the contractor at no additional expense to the Owner.
10. Drainage, sewer and valve vault rims shall be flush with adjacent finished grades. All rim elevation of structures shall be adjusted to finished grade of roadways, island, curblines, etc. If a conflict exists, notify engineer prior to final adjustment of structure elevation.
11. Existing storm structures to remain within the redevelopment area have been noted with 'Adjust Rim' or Adjust MH'. 'Adjust Rim' requires removal of frame, additional or removal of concrete rings and reinstallation of frame. 'Adjust MH' requires removal of frame, flattop or cone, and first barrel section, installation of new shorter barrel section and reinstallation of flattop or cone and frame.
12. Install site lighting per electrical plans. Refer to electrical plans for light fixture, post, make and model and foundation details. Also refer to electrical plans for final wire routing connections and requirements.
13. Install power feed conduits as shown. Refer to electrical plans for conduit and manhole details and building termination connections.

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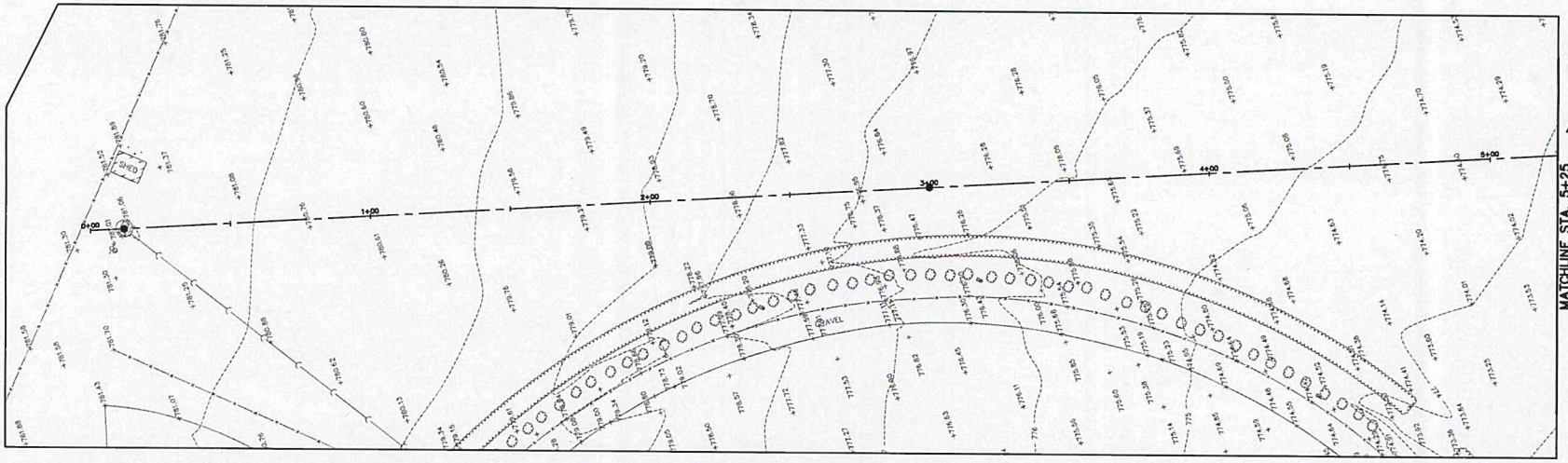
UTILITY PLAN

ANTIOCH HIGH SCHOOL MAINTENANCE BUILDING
SCHOOL DISTRICT 117
1133 MAIN STREET, ANTIOCH, ILLINOIS 60002

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 4675.114_PR1.dwg
DRAWN BY: SAR DATE: 12/14/2021
GHA PROJECT #: 4675.114
CHECKED BY: CAS DATE: 12/14/2021
SCALE: 1"=20'

SHEET NUMBER: 4 OF 10 SHEETS



GRAPHIC SCALE

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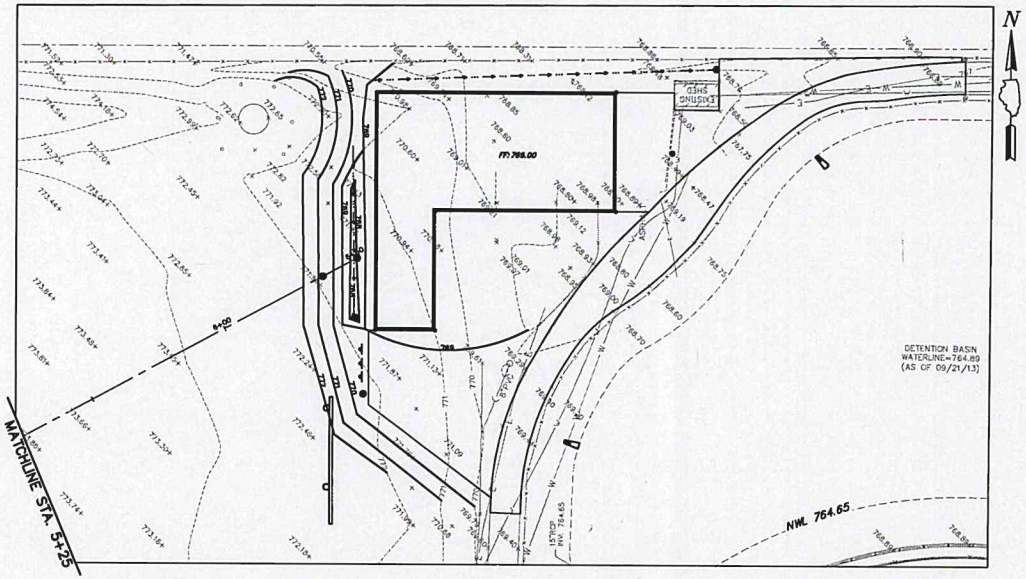
(IN FEET)
1 inch = 20 ft.



GRADING LEGEND

- PROPOSED SPOT ELEVATION
- CONTOUR
- STRUCTURE ADJUSTMENT
- SUMMITS
- SLOPES
- SWALES
- OVERLAND FLOW ROUTE

GRADING PLAN NOTES

1. Prior to starting any construction, provide soil erosion and sediment control devices as shown on the plans and as required per IEPA NPDES guidelines. Refer to notes and details throughout the entire plan set.
2. Prior to starting any excavation work, provide tree protection, preservation and root pruning as shown on the plans and notes throughout the entire plan set.
3. Contractor shall refer to subsurface soil exploration report.
4. Refer to General Notes for grading, compaction and proof roll requirements.
5. Crushed concrete meeting IDOT certifications for the design plan gradations for non-porous pavement and sidewalk stone base, structural fill, and trench backfill will be permitted.
6. Crushed concrete may not be used for underdrain trench or porous fill conditions.
7. The contractor shall import or export soil as necessary to construct the site to specified plan grades. Such work is considered incidental to the contract and no additional compensation shall be allowed for such work. Minor adjustments to grades can be accommodated with Project Engineer approval.
8. The Contractor shall include all associated costs with the removal, transport, disposal, testing and certification of "Uncontaminated Soil" as defined under 415 ILCS 5/3.160 including any fees, taxes, or surcharges charged by or through the operator(s) of Clean Construction or Demolition Debris Fill Operations or Uncontaminated Soil Fill Operations for the acceptance of Uncontaminated Soil.
9. All structures shall be adjusted to meet finished turf and pavement grades.
10. Refer to soil erosion and sediment control notes and details for seed and blanket requirements for temporary stabilization.
11. Refer to geometric plan for final restoration requirements.
12. Contractor shall provide the following as-constructed documents at the conclusion of the project:
    a. Stormwater Basins and swales impounding water
       - Top of berm, overflow, and bottom of basin elevations
       - Structure and flared end sections elevations within basin
       - Control structure restrictor size and elevation.
       - As-constructed volumes within respective basins up to overflow elevation.
    b. Lawn or open space areas
       - Spot elevations at a maximum 50 foot grid.
       - Spot elevation top and bottom of berms or swales
       - Spot elevations and ridge / high and low points.
    c. Parking lot and hard surfaces
       - Top of curb and flowline elevations at similar locations to proposed grading.
       - Spot elevations at summit / high and low points.
    e. Buildings
       - Top of foundation elevations.
       - Finished floor elevations at doorways.
13. Contractor shall ensure positive drainage to all inlets and catchbasins. Areas of surface ponding shall be corrected by the contractor at no additional expense to the Owner.
14. All lawn areas disturbed as a result of construction shall be restored to preconstruction lawn condition following restoration requirements.

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GRADING PLAN

ANTIOCH HIGH SCHOOL MAINTENANCE BUILDING
SCHOOL DISTRICT 117
1133 MAIN STREET, ANTIOCH, ILLINOIS 60002

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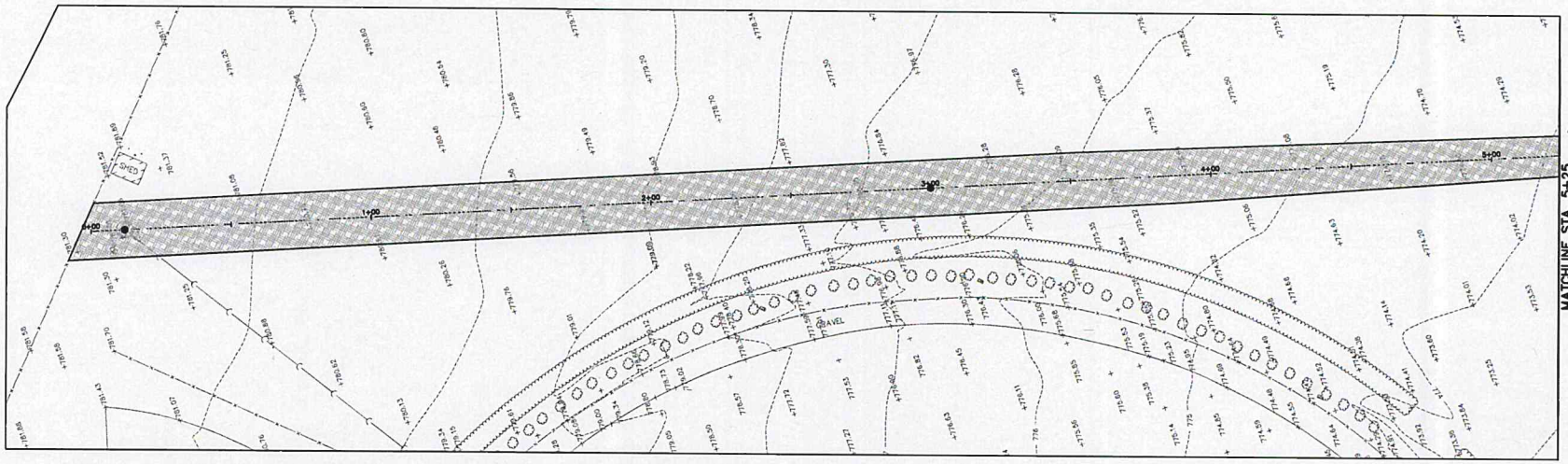
DRAWN BY: SAR DATE: 12/14/2021
GHA PROJECT #: 4675.114
CHECKED BY: CAS DATE: 12/14/2021
SCALE: 1"=20'

SHEET NUMBER: 5 OF 10 SHEETS



GRAPHIC SCALE

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(IN FEET)
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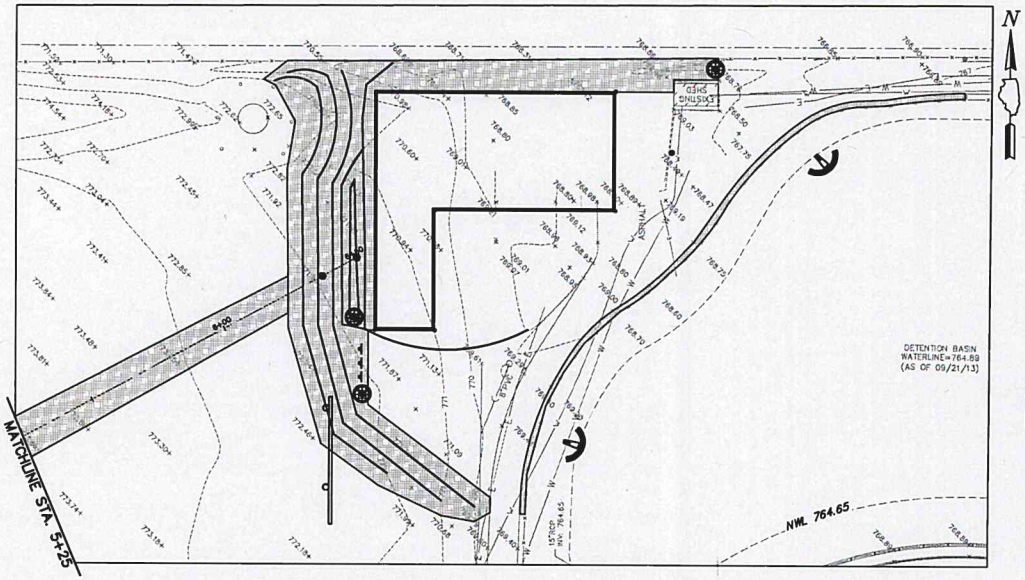

DETENTION:

EXISTING IMPERVIOUS = 0.22 AC

PROPOSED IMPERVIOUS = 0.30 AC

ADDITIONAL IMPERVIOUS = 0.08 AC (LESS THAN MAXIMUM 0.5 AC)

NPDES:

TOTAL DISTURBED AREA = 0.68 AC (LESS THAN MAXIMUM 1.0 AC)

SESC LEGEND

- TOPSOIL, FURNISH AND PLACE, VARIABLE DEPTH, 6" MIN. SEEDING, CLASS 7
  - EROSION CONTROL BLANKET NAG S75 (4:1 SLOPES)
- STORM SEWER INLET PROTECTION:
  - INLET FILTER BASKET
  - INLET FILTER BASKET & COIR LOG
- TRIANGULAR SILT DIKE
- COIR LOG

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SOIL EROSION & SEDIMENT CONTROL PLAN

ANTIOCH HIGH SCHOOL MAINTENANCE BUILDING
SCHOOL DISTRICT 117
1133 MAIN STREET, ANTIOCH, ILLINOIS 60002

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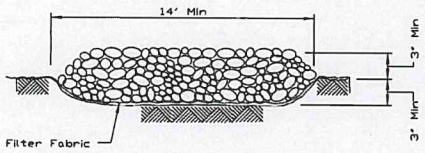
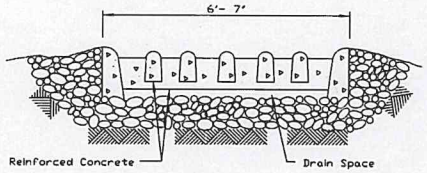
SCALE: 1"=20'

SHEET NUMBER 6 OF 10 SHEETS

STABILIZED CONSTRUCTION ENTRANCE PLAN

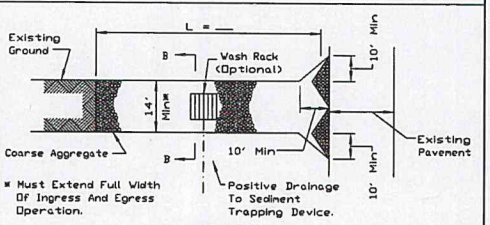


SECTION A-A

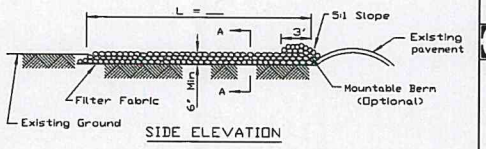


SECTION B-B

STABILIZED CONSTRUCTION ENTRANCE PLAN



PLAN VIEW



SIDE ELEVATION

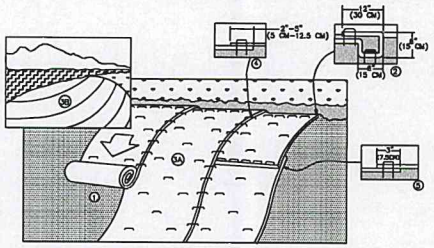
NOTES:
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE			STANDARD DWG. NO.
Project			IL-630
Designed	Date	NRCS Natural Resources Conservation Service	SHEET 2 OF 2
Checked	Date		DATE 8-18-94
Approved	Date		

REFERENCE			STANDARD DWG. NO.
Project			IL-630
Designed	Date	NRCS Natural Resources Conservation Service	SHEET 1 OF 2
Checked	Date		DATE 8-18-94
Approved	Date		

NOTES:
1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.
3. ROLL THE RECP'S (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.
5. CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH.

NOTE:
*IN LOOSE SOIL, CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.



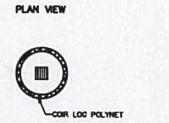
STAPLE PLACEMENTS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. SEE STAPLE PATTERN GUIDES FOR ACTUAL RECOMMENDED PLACEMENTS.

03.15.2016

GHA GEWALT HAMILTON ASSOCIATES, INC.

EROSION CONTROL BLANKET SLOPE INSTALLATION

NOTES:
1. DO NOT SCALE DRAWING.
2. REFER TO MANUFACTURER'S PRODUCT SPECIFICATIONS TO ENSURE QUALITY OF THE PRODUCTS



DROP INLET OR MANHOLE
INLET PROTECTION FOR DROP INLETS OR MANHOLES

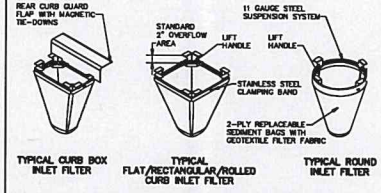
* USE SLB DENSITY 12" DIAMETER, 20' LONG COIR LOG POLYNET FOR STANDARD CIRCULAR DRAINAGE STRUCTURES. PLACE THE COIR LOG AROUND THE STRUCTURE AND JOIN THE ENDS TOGETHER WITH COIR TWINE. USE 2"x2"x24" WOODEN STAKES SPACED 3' APART TO HOLD DOWN LOG POLYNET.

MAINTENANCE
1. CLEAN OUT SEDIMENT BEHIND LOG WHEN ½ FULL
2. RESECURE LOOSE LOGS
3. REPLACE LOGS AS NEEDED
4. REMOVE WHEN NOT NEEDED

03.15.2016

GHA GEWALT HAMILTON ASSOCIATES, INC.

COIR ROLL DETAIL INLET PROTECTION



Material Property	Test Method	Value (min. ave.)	
> Inner Filter Bag Specs (24"x36" vol)		Non-Woven	Woven Mono
Grab Tensile	ASTM D 4632	100 lbs	200 lbs
Puncture Strength	ASTM D 4833	65 lbs	90 lbs
Trapezoidal Tear	ASTM D 4533	45 lbs	75 lbs
UV Resistance	ASTM D 4355	70% at 500 hrs	90%
App. Open Size (AOS)	ASTM D 4751	70 sieve (.212 mm)	40 sieve (.425 mm)
Permittivity	ASTM D 4491	2.0/sec	2.1/sec
Water Flow Rate	ASTM D 4491	145 gpm/sqft	145gpm/sqft
> Polyester Outer Rainbrowsport Bag Specifications			
Weight	ASTM D 3776	4.35 oz/sqyd +/-15%	
Thickness	ASTM D 1777	.040 +/-.005	
> Frame Construction			
AISI Structural Steel 11 Gauge, Zinc Plated	ASTM A 570	Tensile Strength > 58,000 psi Yield Strength > 38,000 psi	

MAINTENANCE
1. CLEAN OUT AFTER EVERY RAIN EVENT

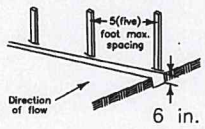
ACCEPTABLE MANUFACTURER'S AS LISTED BELOW:
1. INLET & PIPE PROTECTION, INC. Naperville, IL 60564 847 722-0690
2. MARATHON MATERIALS, INC. Plainfield, IL 60544 800-983-9463

03.15.2016

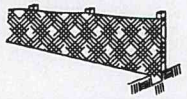
GHA GEWALT HAMILTON ASSOCIATES, INC.

INLET FILTER BASKET DETAIL

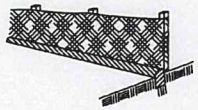
1. Set posts and excavate or slit-trench a 6-inch deep trench upslope along the line of the post



2. Attach the geotextile filter fabric to each post with a minimum of 3 (three) fasteners per post and extend to the bottom of the trench. Acceptable fasteners include staples, zip ties, or wire ties

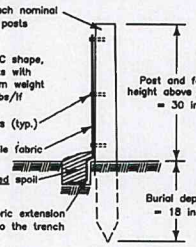


3. Backfill and compact the excavated spoil materials



Geotextile Requirement	Test Method	MARV
Grab strength - Machine direction - X-machine direction	ASTM D 4632	 550 N 450 N
Permittivity	ASTM D 4491	0.05 sec-1
Apparent opening size*	ASTM D 4751	0.60 mm
Ultraviolet stability (retained strength)	ASTM D 4355	70% after 500 hours

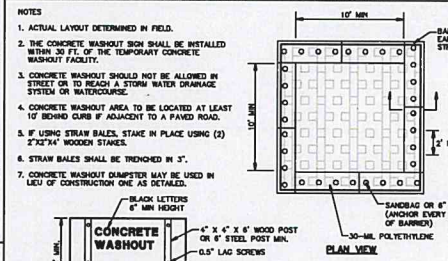
Note:
Value for apparent opening size represents maximum average roll value.

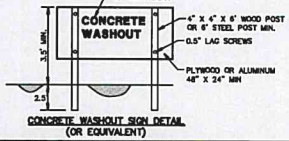


LAKE COUNTY

STORMWATER MANAGEMENT COMMISSION

NOTES
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. CONCRETE WASHOUT SHOULD NOT BE ALLOWED IN STREET OR TO REACH A STORM WATER DRAINAGE SYSTEM OR WATERCOURSE.
4. CONCRETE WASHOUT AREA TO BE LOCATED AT LEAST 10' BEHIND CURB IF ADJACENT TO A PAVED ROAD.
5. IF USING STRAW BALES, STAKE IN PLACE USING (2) 2"X2"X4' WOODEN STAKES.
6. STRAW BALES SHALL BE TRENCHED IN 3".
7. CONCRETE WASHOUT DUMPSTER MAY BE USED IN LIEU OF CONSTRUCTION ONE AS DETAILED.





CONCRETE WASHOUT SIGN DETAIL
(OR EQUIVALENT)

MAINTENANCE:
1. DRIED CONCRETE WASTE SHALL BE PICKED UP AND DISPOSED OF PROPERLY WHEN 75% OF CAPACITY IS REACHED.
2. HARDENED CONCRETE CAN BE PROPERLY RECYCLED AND REUSED ONSITE OR HAULED OFF-SITE TO AN APPROPRIATE FACILITY.

03.15.2016

GHA GEWALT HAMILTON ASSOCIATES, INC.

CONCRETE WASHOUT

SILT FENCE DETAIL

DATE: 4/21/08 BY: KAW
REVISED: BY:

GHA GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive ■ Vernon Hills, IL 60061
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SOIL EROSION AND SEDIMENT CONTROL DETAILS

ANTIOCH HIGH SCHOOL MAINTENANCE BUILDING
SCHOOL DISTRICT 117
1133 MAIN STREET, ANTIOCH, ILLINOIS 60002

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 4675.114-DT.dwg
DRAWN BY: JMB
DATE 12/14/2021
GHA PROJECT # 4675.114
CHECKED BY: SAR
DATE 12/14/2021
SCALE: N.T.S.

SHEET NUMBER 7 OF 10 SHEETS

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE PERFORMED ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" LATEST EDITION, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION, THE ILLINOIS PLUMBING CODE, THE DETAILS IN THESE PLANS, THE CONTRACT DOCUMENTS, ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, THE IEPA AND ORDINANCES OF AUTHORITIES HAVING JURISDICTION AND ALL ADDENDA THERETO.

2. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.

3. WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.

4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE PRIOR TO ORDERING MATERIALS. IN ADDITION, THE CONTRACTOR MUST VERIFY THE LINE AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS/HER OWN RISK AND EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY COSTS INCURRED..

5. ALL PAVEMENT DIMENSIONS ARE SHOWN TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

6. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE THE MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

7. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.

8. IF DURING CONSTRUCTION THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWERS OR UNDERDRAINS OTHER THAN THOSE SHOWN ON THE PLANS, HE/SHE SHALL INFORM THE ENGINEER, WHO SHALL DIRECT THE WORK NECESSARY TO MAINTAIN OR REPLACE THE FACILITIES IN SERVICE AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION IF MAINTAINED. EXISTING FACILITIES TO BE MAINTAINED THAT ARE DAMAGED BECAUSE OF NON-COMPLIANCE WITH THIS PROVISION SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE.

9. THE CONTRACTOR SHALL PROVIDE TEMPORARY TOILET FACILITIES AND HAND SANITIZING STATIONS FOR THE USE OF ALL THE CONTRACTORS PERSONNEL EMPLOYED ON THE WORK SITE. THE FACILITIES SHALL BE MAINTAINED IN PROPER SANITARY CONDITION THROUGHOUT THE PROJECT. THE LOCATION OF THE TEMPORARY FACILITIES SHALL BE APPROVED BY THE ENGINEER.

10. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE NPDES PERMIT AND SWPPP MANUAL. IF NO NPDES PERMIT OR SWPPP MANUAL IS NEEDED FOR THE PROJECT THE CONTRACTOR SHALL PERFORM SOIL EROSION SEDIMENT CONTROL BEST PRACTICES OR AS DIRECTED BY THE OWNER TO PREVENT ILLICIT DISCHARGES FROM THE SITE.

UTILITY NOTES

1. UNDERGROUND WORK SHALL INCLUDE TRENCHING, DISPOSAL OF EXCESS MATERIAL, DEWATERING, INSTALLATION OF PIPE, CASTINGS, STRUCTURES, BACKFILLING OF TRENCHES AND COMPACTION, AND TESTING AS SHOWN ON THE CONSTRUCTION PLANS. FITTINGS AND ACCESSORIES NECESSARY TO COMPLETE THE WORK MAY NOT BE SPECIFIED BUT SHALL BE CONSIDERED AS INCLUDED TO THE COST OF THE CONTRACT. ALL SEWER SHALL BE INSTALLED USING A LASER AND BEGIN AT THE DOWNSTREAM END.

2. MACHINE CORE ALL CONNECTIONS TO EXISTING STRUCTURES USING A CORE DRILL. HAMMERING OR SAWING OF STRUCTURES WILL NOT BE ALLOWED.

3. SANITARY SERVICE CONNECTIONS TO NEW SEWERS SHALL BE MADE WITH WYE BRANCHES. WYE BRANCHES SHALL BE FACTORY MANUFACTURED PERMANENTLY AFFIXED TO THE MAIN SEWER. TEE BRANCHES ARE NOT ALLOWED.

4. ALL CONNECTIONS TO EXISTING SANITARY MANHOLES SHALL BE INSTALLED WITH A NEOPRENE BOOT SECURED WITH DOUBLE STAINLESS STEEL STRAPS MEETING THE REQUIREMENTS OF ASTM C-923.

5. ALL CONNECTIONS TO EXISTING OR DISSIMILAR STORM/SANITARY LINES SHALL BE DONE WITH STAINLESS STEEL NON-SHEAR COUPLINGS.

6. STONE BEDDING AND BACKFILL SHALL BE OMITTED FOR A DISTANCE OF 15 FEET UP AND DOWNSTREAM OF SEWERS DRAINING TO OR FROM PONDS OR STREAMS. THE REPLACED BEDDING SHALL BE SILTY CLAY SOIL MECHANICALLY COMPACTED TO 90% MODIFIED PROCTOR DENSITY. THE USE OF PERMEABLE SOILS WILL NOT BE PERMITTED.

7. ALL WATER MAIN SHALL HAVE MECHANICAL RESTRAINED TYPE JOINTS AT ALL CONNECTIONS AND FITTINGS. IN ADDITION, ALL HARDWARE SHALL BE STAINLESS STEEL.

8. THRUST BLOCKING SHALL BE PROVIDED ON WATER MAIN AT ALL BENDS, TEES, ELBOWS, ETC. INDIVIDUAL INSPECTION FOR ALL THRUST BLOCKING IS REQUIRED. THRUST BLOCKING SHALL BE POURED IN PLACE CONCRETE. PRECAST BLOCKS MAY BE USED AS APPROVED BY THE ENGINEER IN THE FIELD.

9. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER. ALL DOWNSPOUTS, SIDE YARD DRAINS, AND OUTSIDE DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM. FOOTING DRAINS SHALL FIRST DRAIN TO A SUMP PIT.

PROJECT SPECIFIC NOTES

1. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS THAT INCLUDE; CRITICAL SPOT GRADES SUCH AS OVERFLOW ELEVATIONS, SPOT ELEVATIONS NEAR ENTRANCES, SPOT ELEVATIONS ALONG THE DESIGNATED ADA ROUTE. SUFFICENT INFORMATION SUCH THAT THE ENGINEER MAY VERIFY DETENTION VOLUMES, RIM AND INVERT ELEVATIONS OF ALL SEWERS, RIM AND TOP OF PIPE ELEVATIONS OF ALL WATER MAIN, LOCATIONS OF ALL INSTALLED UNDERGROUND UTILITIES, LOCATIONS OF ALL BURIED BENDS AND FITTINGS AND ALL FIELD CHANGES FROM THE APPROVED DRAWINGS.

2. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF 12 MONTHS FROM THE DATE OF INITIAL ACCEPTANCE OF THE WORK BY THE OWNER AGAINST ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE.

3. ALL CONSTRUCTION WILL BE INSPECTED BY THE OWNER'S REPRESENTATIVE. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MUNICIPALITY AS WELL AS THE STANDARD SPECIFICATIONS.

4. ALL PUBLIC WATER MAINS AND SANITARY SEWER MAINS MUST BE ACCEPTED BY THE VILLAGE OF ANTIOCH.

5. THE SEWER AND WATER CONTRACTOR SHALL BE REQUIRED TO BE LICENSED AND BONDED WITH THE VILLAGE OF ANTIOCH AND ILLINOIS SCHOOL DISTRICT 117 BEFORE WORK IS STARTED.

6. CONTRACTOR SHALL NOTIFY ANTIOCH COMMUNITY HIGH SCHOOL (847-395-1421) AND THE PROJECT ENGINEER (847-478-9700) AT LEAST 72 HOURS PRIOR TO BEGINNING ANY WORK ON THIS PROJECT.

7. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, ENGINEER, THE MUNICIPALITY AND THEIR AGENTS, FROM ALL LIABILITY INVOLVED IN CONSTRUCTION, INSTALLATION AND TESTING OF THE WORK ON THIS PROJECT.

8. THE CONTRACTOR MUST CARRY INSURANCE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. ALL OFFICIALS, EMPLOYEES AND AGENTS OF GEWALT HAMILTON ASSOCIATES MUST BE LISTED AS ADDITIONAL INSURED.

9. ALL ELEVATIONS ARE ON NAVD 88 VERTICAL DATUM.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL TO ADEQUATELY INFORM AND PROTECT THE PUBLIC OF ALL CONSTRUCTION OPERATIONS.

11. STOCKPILING MATERIAL WITHIN THE 100 YEAR FLOOD PLAIN AND OR THE FLOODWAY IS STRICTLY PROHIBITED

12. PRIOR TO PLACEMENT OF FABRIC AND STONE, THE SUBGRADE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER. PROOF-ROLLING SHALL BE DONE USING A THREE AXLE DUMP TRUCK TOGETHER WITH LOAD WEIGHING AT LEAST TWENTY-FIVE (25) TONS. THE LOAD SHALL BE UNIFORMLY PLACED IN THE DUMP BODY. ALL DEFICIENCIES SHALL BE REPAIRED AND RE-PROOF-ROLLED UNTIL FOUND ACCEPTABLE TO THE ENGINEER.

13. CRUSHED CONCRETE IS NOT PERMITTED FOR USE ON THE PROJECT UNLESS PRIOR WRITTEN NOTICE IS GIVEN BY THE ENGINEER.

14. ALL STONE USED ON THE PROJECT SHALL BE CRUSHED UNLESS SPECIFICALLY NOTED OTHERWISE.

15. ALL CONNECTIONS TO EXISTING STORM MANHOLES SHALL BE INSTALLED WITH A NEOPRENE BOOT SECURED WITH DOUBLE STAINLESS STEEL STRAPS MEETING THE REQUIREMENTS OF ASTM C-923.

16. ALL CONCRETE SHALL HAVE A LIGHT BROOM FINISH APPLIED WITHIN 1 HOUR OF FINAL STRIKING.

17. ALL CONCRETE SHALL CONSIST OF PORTLAND CEMENT CONCRETE MEETING REQUIREMENTS OF SECTION 1020. ALL SIDEWALKS, CURBS AND POST FOUNDATIONS SHALL BE CLASS SI 3,500 PSI @ 14 DAYS. ALL PAVEMENT SHALL BE CLASS PV 3,500 PSI @ 14 DAYS. WHERE NOTED ON THE PLANS HIGH EARLY CONCRETE SHALL BE CLASS PV TYPE III 3,500 PSI CONCRETE @ 3 DAYS. ALL CONCRETE REQUIRING A CURE TIME FASTER THAN 3 DAYS SHALL HAVE A MIX DESIGN SUBMITTED TO THE ENGINEER FOR APPROVAL. WHEN REQUIRED BY THE MUNICIPALITY, FLY ASH SHALL NOT BE USED IN THE MIX DESIGN. SLUMP SHALL BE 2-4" AND AIR CONTENT SHALL BE BETWEEN 5-8% UNLESS MODIFIED BY ARTICLE 1020.04.

18. ALL CONCRETE SHALL HAVE A WHITE, IDOT TYPE 3 CURING COMPOUND APPLIED TO THE SURFACE WITHIN 1 HOUR OF FINAL STRIKING AT THE MANUFACTURER RECOMMENDED APPLICATION RATE.

19. 3/4" THICK PRE-MOLDED FIBER EXPANSION JOINTS WITH 2 , 3/4" x 18" PLAIN ROUND, STEEL DOWEL BARS SHALL BE INSTALLED IN ALL CURBS AT (45') FORTY-FIVE FOOT INTERVALS AND AT ALL P.C.'S, P.T.'S AND CURB RETURNS. ALTERNATE ENDS OF THE DOWEL BARS SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES. ALL EXPANSION JOINTS MUST BE FREE OF CONCRETE FOR FULL DEPTH. CONTRACTION JOINTS SHALL BE TOOLED AT 15' INTERVALS.

20. UNLESS OTHERWISE NOTED ON THE PLANS WHENEVER NEW CONCRETE ABUTS EXISTING/ OR NEW CONCRETE SET A 1/2" THICK PRE-MOLDED FIBER EXPANSION JOINT AND DOWEL WITH SMOOTH 12" #4 BARS @ 24" O.C. THIS INCLUDES CONCRETE POURED ADJACENT TO EXISTING SIDEWALKS, CURBS AND BUILDING. THE DOWEL BARS SHOULD BE 4" INTO EXISTING CONCRETE WITH 8" EXTENDING INTO NEW CONCRETE.

21. ALL DOWEL BARS AND TIE BARS SHALL BE EPOXY COATED UNLESS NOTED OTHERWISE.

22. ALL PAVEMENT AND BUILDING SUBGRADE SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL SUBGRADE IN LAWN AREAS SHALL BE COMPACTED TO 90% MODIFIED PROCTOR DENSITY (ASTM D-1557). ALL TOPSOIL AND SUBGRADE 6" BELOW TOPSOIL SHALL BE COMPACTED TO 80% STANDARD PROCTOR DENSITY (ASTM D-698)

23. SPREAD SCREENED TOPSOIL ON ALL DISTURBED AREAS AND PROPOSED GREEN AREAS. TOPSOIL SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 1081.05.

24. ALL SIGNAGE SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND ILLINOIS SUPPLEMENT OR ILLINOIS DEPARTMENT OF TRANSPORTATION DETAILS.

25. ALL SIGNAGE NOT ATTACHED TO SIGNAL OR LIGHTING POLES SHALL BE MOUNTED ON TELESCOPING STEEL SIGN SUPPORTS WITH BREAKAWAY BASES IN ACCORDANCE WITH SECTION 728.

26. ALL SIGNAGE SHALL HAVE TYPE ZZ SHEETING.

EROSION CONTROL NOTES

1. AT A MINIMUM, THE CONTRACTOR SHALL INSTALL AND MAINTAIN SOIL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE LATEST EDITION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S URBAN MANUAL.

2. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS.

3. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY ROAD OF MATERIAL THAT IS FROM THE PROJECT. THIS WILL BE DONE AT THE CLOSE OF EACH DAY OF WORK OR MORE FREQUENTLY AS FIELD CONDITIONS WARRANT.

4. ALL STORM WATER STRUCTURES WITH OPEN LIDS SHALL BE PROTECTED WITH INLET FILTER BASKETS. DURING CONSTRUCTION, SEDIMENT SHALL BE REMOVED AS NEEDED, AND BASKETS SHALL BE REPAIRED OR REPLACED AS NEEDED.

5. AFTER ACHIEVING PERMANENT VEGETATION, ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE REMOVED, AND THE DRAINAGE STRUCTURES SHALL BE CLEANED.

6. THE CONTRACTOR SHALL KEEP A WATER SOURCE AT THEIR DISPOSAL FOR THE PURPOSE OF WATERING DOWN SOIL ON SITE AND ADJACENT ROADWAYS WHICH OTHERWISE MAY BECOME AIRBORNE.

7. THE CONTRACTOR SHALL STABILIZE ALL IDLE, DISTURBED AREAS WITHIN SEVEN DAYS OF CESSATION OF THE CONSTRUCTION ACTIVITIES IN THAT AREA.

8. THE CONTRACTOR IS EXPRESSLY ADVISED NOT TO DISTURB AREAS WHICH ARE OUTSIDE THOSE NECESSARY TO PROVIDE THE IMPROVEMENTS AS CALLED FOR IN THE PLANS.

9. ALL EROSION CONTROL MEASURES SHALL BE REPLACED IF DAMAGED OR MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT.

10. ALL BYPASS CHANNELS, MUST BE CONSTRUCTED SO THAT CHANNEL FLOWS WILL NOT CAUSE EROSION OF EXCAVATED MATERIAL. IN EACH CASE A SEDIMENTATION BASIN MUST BE CONSTRUCTED SO AS TO ALLOW THE SEDIMENT TO SETTLE PRIOR TO THE DOWNSTREAM OUTLET OF THE PROJECT AREA.

11. PUMPS MAY BE USED AS BYPASS DEVICES, BUT IN NO CASE WILL THE WATER BE DIVERTED OUTSIDE THE PROJECT LIMIT. ALL PUMPED WATER SHALL BE FREE OF SILT. PUMPING MAY REQUIRE THE USE OF A SEDIMENT CONTAINMENT FILTER BAG AND OTHER SUPPLEMENTAL SEDIMENT CONTROL MEASURES.

12. CONCRETE WASHOUT FACILITIES SHALL BE MADE AVAILABLE IF NEEDED, AND PROPERLY MAINTAINED THROUGHOUT THE PROJECT.

13. PROPERLY MANAGE ALL MATERIAL STORAGE AREAS, PORTABLE TOILETS, AND EQUIPMENT FUELING, CLEANING, AND MAINTENANCE AREAS TO ENSURE THESE AREAS ARE FREE OF SPILLS, LEAKS, OR OTHER POTENTIAL POLLUTANTS.

14. WASTE, CONSTRUCTION DEBRIS, AND BUILDING MATERIALS SHALL BE COLLECTED AND PLACED IN APPROVED RECEPTACLES.

SPECIAL PROVISIONS

CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) MATERIAL DISPOSAL

WORK UNDER THIS ITEM SHALL BE PERFORMED IN COMPLIANCE WITH THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) GUIDELINES IN EFFECT AT THE TIME OF CONSTRUCTION. THE CONTRACTOR WILL BE REQUIRED TO MAKE ALL ARRANGEMENTS FOR COORDINATION AND SUBMISSION OF THE NECESSARY DOCUMENTS WITH THEIR CHOSEN CCDD OR OTHER SUITABLE DISPOSAL FACILITY. WRITTEN CONFIRMATION OF PRELIMINARY APPROVAL MUST BE PROVIDED FROM THE DISPOSAL FACILITY AND CONFIRMED BY THE OWNER AS ACCEPTABLE. ALL SURPLUS, CLEAN MATERIAL GENERATED FROM THE CONTRACTOR'S ACTIVITIES MUST BE DISPOSED OF AT AN IEPA PERMITTED CCDD OR OTHERWISE ACCEPTABLE FACILITY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DOCUMENTATION TO THE OWNER FOR EACH LOAD HAULED OFF-SITE SHOWING THE QUANTITY OF MATERIAL AND THE LOCATION THE MATERIAL WAS DISPOSED OF. NO EXTRA COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY EXPENSES INCURRED COMPLYING WITH THESE REQUIREMENTS INCLUDING BUT NOT LIMITED TO: DELAYS, INCONVENIENCE, OR INTERRUPTIONS IN THE WORK RESULTING FROM COMPLIANCE WITH THESE REQUIREMENTS. ALL COSTS ASSOCIATED WITH MATERIAL TESTING AND DISPOSAL SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

AS-BUILT DOCUMENTS

THE CONTRACTOR IS REQUIRED TO SUBMIT 'AS-BUILT PLANS', i.e. - RECORD DRAWINGS OF ALL PROJECTS THAT INCLUDE THE INSTALLATION OF STORM SEWER, SANITARY SEWER, WATERMAIN AND WATER SERVICES, STORMWATER MANAGEMENT FACILITIES AND SITE GRADING. THE EXISTING ELEVATIONS SHALL BE LINED-THROUGH AND THE AS-CONSTRUCTED GRADES WRITTEN NEXT TO THEM. THE 'AS-BUILT PLANS' MUST BE SIGNED AND SEALED BY A REGISTERED LAND SURVEYOR AND/OR A REGISTERED PROFESSIONAL ENGINEER AND SUBMITTED TO GHA FOR REVIEW. THE AS-BUILT PLANS SHALL FURTHER:

A. SHOW THE RIM AND INVERT ELEVATIONS FOR ALL MANHOLES, CATCH BASINS, INLETS AND FLARED END SECTIONS.

B. WHEN SURFACE DETENTION IS PROVIDED ON A PAVED SURFACE SUFFICIENT AS-CONSTRUCTED GRADES SHALL BE PROVIDED TO CONFIRM THAT THE REQUIRED DETENTION VOLUME AND HIGH-WATER ELEVATION WAS ACHIEVED.

C. WHEN SURFACE DETENTION IS PROVIDED IN A DETENTION OR RETENTION POND, SUFFICIENT AS-CONSTRUCTED GRADES SHALL BE PROVIDED TO CONFIRM THAT THE REQUIRED DETENTION VOLUME WAS ACHIEVED. THE AS-CONSTRUCTED GRADES SHALL INCLUDE THE TOP OF THE BERM AND EMERGENCY OVERFLOW.

D. RESTRICTOR STRUCTURES SHALL BE LOCATED AND THE SIZE, TYPE AND ELEVATION OF THE RESTRICTOR SHALL BE PROVIDED ALONG WITH ANY INTERIOR OVERFLOW WEIRS, LOW-FLOW NOTCHES, ETC.

PARTICULAR CARE SHALL BE GIVEN TO INSTALLATION OF ALL IMPROVEMENTS WITHIN THE ADA ROUTES INCLUDING RAMPS, LEVEL LANDINGS, TRANSITION PANELS, CURBS AND TACTILE SURFACES. THE CONTRACTOR SHALL ENSURE THAT ALL CROSS SLOPES AND LANDINGS DO NOT EXCEED 2% EXCEPT IN CHICAGO WHICH CANNOT EXCEED 1.56%. RUNNING SLOPES ON ADA ROUTES GREATER THAN 5% REQUIRE HANDRAILS. THE CONTRACTOR SHALL INFORM THE ENGINEER WHEN THE STATED SLOPES ARE EXCEEDED IN THE FIELD

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GENERAL NOTES

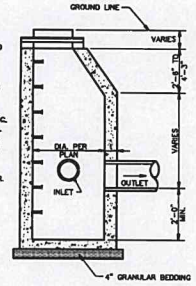
ANTIOCH HIGH SCHOOL MAINTENANCE BUILDING
SCHOOL DISTRICT 117
1133 MAIN STREET, ANTIOCH, ILLINOIS 60002

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

FILE: 4675.114-DT.dwg
DRAWN BY: JMB DATE: 12/14/2021
CHECKED BY: SAR DATE: 12/14/2021
GHA PROJECT #: 4675.114
SCALE: N.T.S.

NOTES:

1. SEE STORM TABLE FOR FURTHER REQUIREMENTS.
2. PRECAST REINFORCED CONCRETE SECTIONS PER ASTM C-478 AND PREFORMED BITUMINOUS JOINTS WITH INTEGRAL PRECAST BOTTOMS.
3. PIPE OPENINGS SHALL BE PRECAST INTO WALLS.
4. I.D.O.T #602801 FOR FLAT TOPS.
5. PRECAST PCC BENCH SHALL EXTEND TO CROWN AND SLOPE TO OUTSIDE WALL, SMOOTH FINISH.
6. STEPS TO BE STEEL REINFORCED PLASTIC.
   A. IMBEDDED 3" INTO STRUCTURE WALL.
   B. SPACED AT 16" CENTER TO CENTER.
   C. FIRST STEP LOCATED 8"-12" BELOW FRAME.
7. FINAL ADJUSTMENT TO FRAMES TO BE DONE WITH STEEL SHIMS SET IN MORTAR.



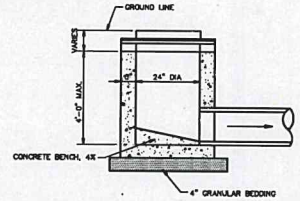
DIA	MIN. THICKNESS (t)
48"	4"
60"	5"
72"	6"

03.15.2016

CATCH BASIN TYPE A

NOTES:

1. SEE STORM TABLE FOR FURTHER REQUIREMENTS.
2. PRECAST REINFORCED CONCRETE SECTIONS PER ASTM C-478 AND PREFORMED BITUMINOUS JOINTS WITH INTEGRAL PRECAST BOTTOMS.
3. PIPE OPENINGS SHALL BE PRECAST INTO WALLS.
4. FINAL ADJUSTMENT TO FRAMES TO BE DONE WITH STEEL SHIMS SET IN MORTAR.

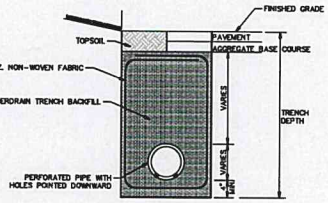


03.15.2016

INLET TYPE A

NOTE:
SEE STORM TABLE FOR MATERIAL REQUIREMENTS.

TRENCH WIDTH
WIDTH (MAX.) = 9" + OD + 9" WHEN TRENCH DEPTH ≤ 5 FT.
WIDTH (MAX.) = 18" + OD + 18" WHEN TRENCH DEPTH > 5 FT.

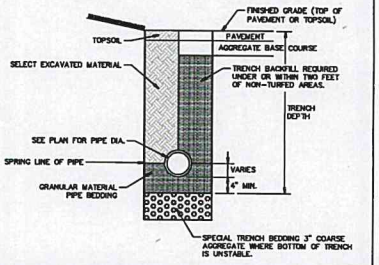


04.02.2021

STORM UNDERDRAIN DETAIL

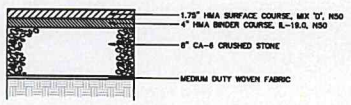
NOTE:
SEE STORM TABLE FOR MATERIAL REQUIREMENTS.

TRENCH WIDTH
WIDTH (MAX.) = 9" + OD + 9" WHEN TRENCH DEPTH ≤ 5 FT.
WIDTH (MAX.) = 18" + OD + 18" WHEN TRENCH DEPTH > 5 FT.



04.02.2021

STORM TRENCH DETAIL RIGID PIPE INSTALLATION

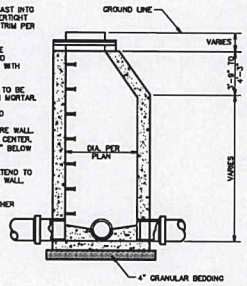


02.01.2021

MEDIUM DUTY PAVEMENT DETAIL

NOTES:

1. EXTERIOR NEOPRENE CHIMNEY SEAL STAINLESS STEEL TRIM PER ASTM C-923.
2. PIPE OPENINGS SHALL BE PRECAST INTO WALLS, CAST IN RESILIENT WATERTIGHT SLEEVE WITH STAINLESS STEEL TRIM PER ASTM C-923.
3. PRECAST REINFORCED CONCRETE SECTIONS PER ASTM C-478 AND PREFORMED BITUMINOUS JOINTS WITH INTEGRAL PRECAST BOTTOMS.
4. FINAL ADJUSTMENT TO FRAMES TO BE DONE WITH STEEL SHIMS SET IN MORTAR.
5. STEPS TO BE STEEL REINFORCED PLASTIC.
   A. IMBEDDED 3" INTO STRUCTURE WALL.
   B. SPACED AT 16" CENTER TO CENTER.
   C. FIRST STEP LOCATED 8"-12" BELOW FRAME.
6. PRECAST PCC BENCH SHALL EXTEND TO CROWN AND SLOPE TO OUTSIDE WALL, SMOOTH FINISH.
7. SEE SANITARY TABLE FOR FURTHER REQUIREMENTS.



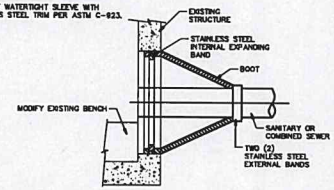
DIM	MIN. THICKNESS
48"	4"
60"	5"
72"	6"

03.15.2016

SANITARY MANHOLE

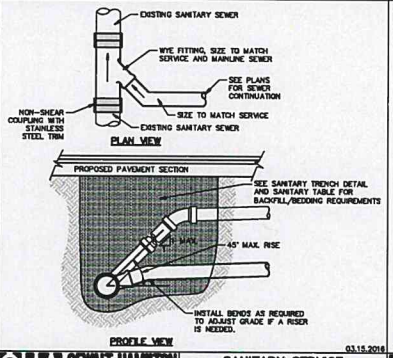
NOTES:

1. MACHINE CORE CIRCULAR OPENING IN STRUCTURE WALL OF DIAMETER TO FIT THE REQUIRED BOOT SIZE PER MANUFACTURERS RECOMMENDATION.
2. CUT SHAPE AND SLOPE NEW INVERT CHANNEL IN THE EXISTING CONCRETE BENCH FOR SMOOTH FLOW FROM/TO NEW CONNECTION.
3. CLEAN EXISTING STRUCTURE AND SEWER PIPE OF ANY DIRT CONCRETE OR DEBRIS WHICH MAY ACCUMULATE DURING THE CONSTRUCTION PROCESS.
4. RESILIENT WATERTIGHT SLEEVE WITH STAINLESS STEEL TRIM PER ASTM C-923.



03.15.2016

SANITARY OR COMBINED SEWER PIPE CONNECTION TO EXISTING STRUCTURE DETAIL

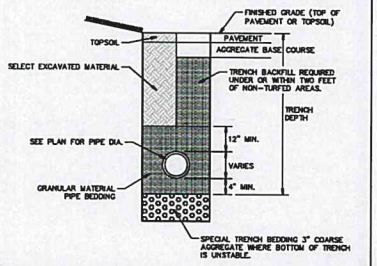


03.15.2016

SANITARY SERVICE CONNECTION DETAIL

NOTE:
SEE SANITARY TABLE FOR MATERIAL REQUIREMENTS.

TRENCH WIDTH
WIDTH (MAX.) = 9" + OD + 9" WHEN TRENCH DEPTH ≤ 5 FT.
WIDTH (MAX.) = 18" + OD + 18" WHEN TRENCH DEPTH > 5 FT.

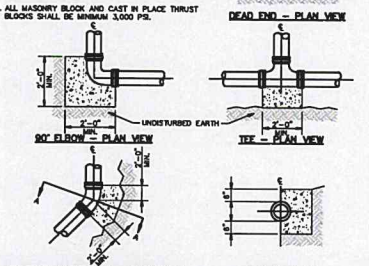


04.02.2021

SANITARY TRENCH DETAIL

NOTES:

1. SEE WATER TABLE FOR FURTHER REQUIREMENTS.



03.17.2021

THRUST BLOCKING

VERTICAL SEPARATION REQUIREMENTS

CROSSING	REQUIRED VERTICAL SEPARATION	ADDITIONAL REQUIREMENTS (SELECT ONE)
WATER OVER SEWER	WATER INVERT 18" ABOVE CROWN OF SEWER.	VERTICAL SEPARATION < 18" 1. WATER OR SEWER TO BE ENCASED FOR A MINIMUM DISTANCE OF 10' FROM THE EDGE OF PIPE, ON EITHER SIDE, PERPENDICULAR TO THE CROSSING. 2. SEWER TO BE WATER MAIN CLASS PIPE FOR A DISTANCE OF 10' FROM THE EDGE OF PIPE ON EITHER SIDE PERPENDICULAR TO THE CROSSING.
SEWER OVER WATER	SEWER INVERT 18" ABOVE CROWN OF WATER.	VERTICAL SEPARATION < 18" (NEVER ALLOWED) 1. WATER OR SEWER TO BE ENCASED FOR A MINIMUM DISTANCE OF 10' FROM THE EDGE OF PIPE ON EITHER SIDE PERPENDICULAR TO THE CROSSING. 2. SEWER TO BE WATER MAIN CLASS PIPE FOR A DISTANCE OF 10' FROM THE EDGE OF PIPE ON EITHER SIDE PERPENDICULAR TO THE CROSSING.

NOTES:

1. SEE WATER TABLE FOR FURTHER MATERIAL REQUIREMENTS.
2. SEPARATION REQUIREMENTS APPLY TO BOTH EXISTING AND PROPOSED WATER MAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER, AND ALL SERVICE CONNECTIONS.
3. WATER MAINS SHALL BE SEPARATED FROM SEPTIC TANKS, DISPOSAL FIELDS, SEEPAGE BEDS, AND LIFT STATIONS BY A MINIMUM OF 25'.

HORIZONTAL SEPARATION REQUIREMENTS

REQUIRED HORIZONTAL SEPARATION	ADDITIONAL REQUIREMENTS
10' OF LATERAL SEPARATION FROM EDGE OF PIPE TO EDGE OF PIPE.	HORIZONTAL SEPARATION < 10' 1. WATER INVERT 18" ABOVE CROWN OF SEWER. HORIZONTAL SEPARATION < 10' & VERTICAL SEPARATION < 18" 2. SEWER CONSTRUCTED WITH WATER MAIN CLASS PIPE (SEE VERTICAL SEPARATION REQUIREMENTS) AND PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE PRIOR TO BACKFILLING.

RESTRAINED LENGTH TABLE

TYPE OF FITTING	RESTRAINED LENGTH (EACH WAY)
TEE AND PLUG	LENGTH OF TEE
90° BEND	18'-0"
45° BEND	8'-0"
22 1/2° BEND	4'-0"
11 1/4° BEND	2'-0"

LOCKING GASKET LENGTH TABLE

TYPE OF BEND/FITTING	DISTANCE FROM BEND/FITTING (EACH WAY)
45° HORIZONTAL BEND	15'-0"
22.5° HORIZONTAL BEND	10'-0"
45° VERTICAL OFFSET	25'-0"
TEES	PROVIDE THRUST BLOCK
PRESSURE CONNECTION	PROVIDE THRUST BLOCK
END CAPS	PROVIDE THRUST BLOCK

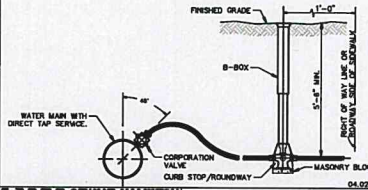
04.02.2021

WATER MAIN INSTALLATION AND SEPARATION REQUIREMENTS

NOTES:

1. SEE UTILITY TABLE FOR MATERIAL REQUIREMENTS.
2. WEAVE SERVICE PIPE IN TRENCH TO ALLOW AT LEAST ONE (1) FOOT EXTRA LENGTH FOR ITS LENGTH.
3. ALL CONNECTIONS SHALL BE OF THE "FLARED" TYPE.

WATER MAIN SIZE (IN)	DIP CL 52 PIPE MAXIMUM RECOMMENDED DIRECT TAP SIZE (IN)
3	¾
4	¾
6	1
8	1
10	1
12	1 ½
14	1 ½
16	2
18	2
20	2
24	2

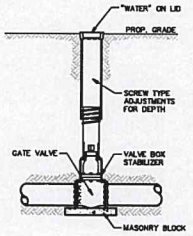


04.02.2021

WATER SERVICE

NOTES:

1. SEE WATER TABLE FOR FURTHER REQUIREMENTS.

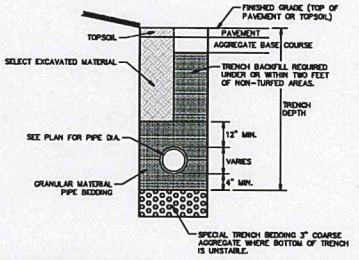


03.17.2021

VALVE BOX

NOTE:
SEE WATER TABLE FOR MATERIAL REQUIREMENTS.

TRENCH WIDTH
WIDTH (MAX.) = 9" + OD + 9" WHEN TRENCH DEPTH ≤ 5 FT.
WIDTH (MAX.) = 18" + OD + 18" WHEN TRENCH DEPTH > 5 FT.



04.02.2021

WATER MAIN TRENCH

GHA GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive ■ Vernon Hills, IL 60061
TEL 847.478.9700 ■ FAX 847.478.9701

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DETAILS

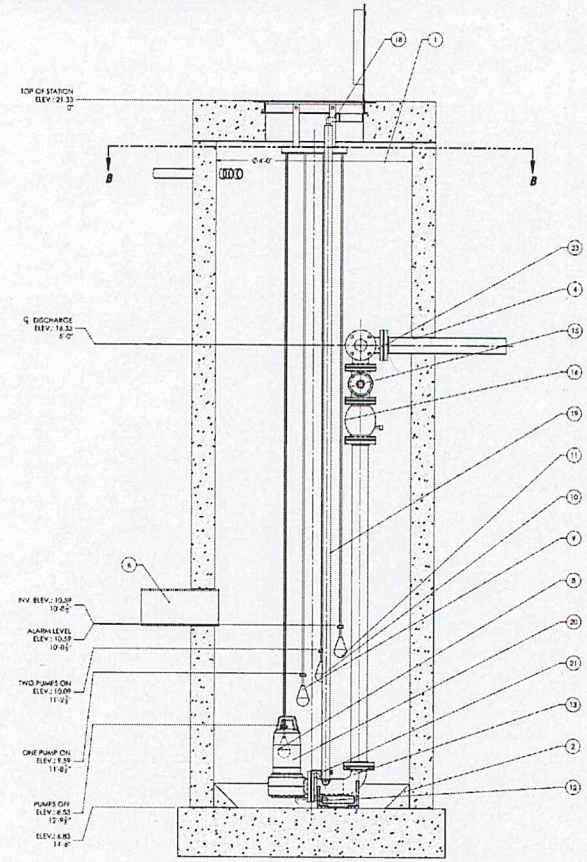
ANTIOCH HIGH SCHOOL MAINTENANCE BUILDING
SCHOOL DISTRICT 117
1133 MAIN STREET, ANTIOCH, ILLINOIS 60002

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

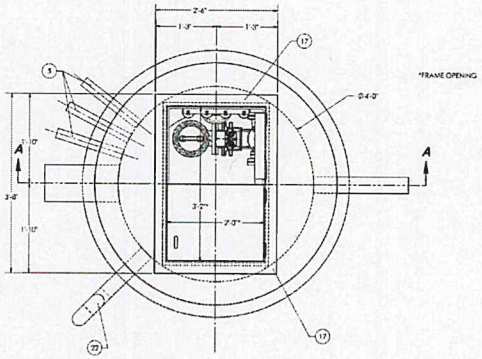
FILE: 4675.114-DT.dwg
DRAWN BY: JMB DATE: 12/14/2021
CHECKED BY: SAR DATE: 12/14/2021
GHA PROJECT # 4675.114
SCALE: N.T.S.
SHEET NUMBER: 9 OF 10 SHEETS

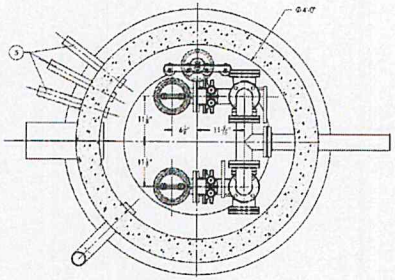
NOTES:

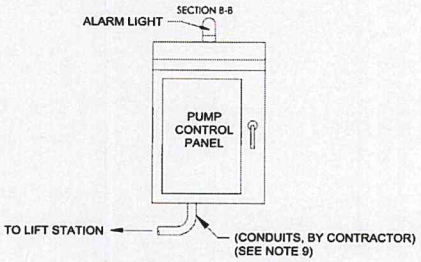
1. THIS DRAWING IS A PRELIMINARY LAYOUT ONLY. NOT FOR CONSTRUCTION. CONSTRUCTION DRAWINGS WILL BE FORWARDED UPON RECEIPT OF APPROVED SUBMITTALS.
2. SOME ITEMS NOT SHOWN FOR CLARITY.
3. ALL PIPING & VALVES ARE TO BE PROVIDED BY CONTRACTOR, UNLESS NOTED OTHERWISE.
4. METROPOLITAN PUMP TO PROVIDE ONLY THE ITEMS SHOWN IN BOLD.
5. LIFT STATION TO BE INSTALLED BY AN EXPERIENCED AND QUALIFIED CONTRACTOR.
6. CONTRACTOR TO ORDER CONTROL & POWER CORDS OF SUFFICIENT LENGTH TO REACH CONTROL PANEL FROM POINT OF ORIGIN ON PUMPS WITHOUT SPLICING.
7. ALL CONCRETE WORK AND CONDUIT WORK ARE THE RESPONSIBILITY OF THE CONTRACTOR.
8. CONTRACTOR TO VERIFY ALL DIMENSIONS, ELEVATIONS, PIPING LAYOUTS, AND ORIENTATION OF INLET(S), DISCHARGE AND CONDUIT(S).
9. CONDUITS ARE AS FOLLOWS: (1) 2" FOR EACH PUMP POWER CORD AND (1) 2" FOR PUMP SENSOR CABLES AND LEVEL CONTROL.



SECTION A-A



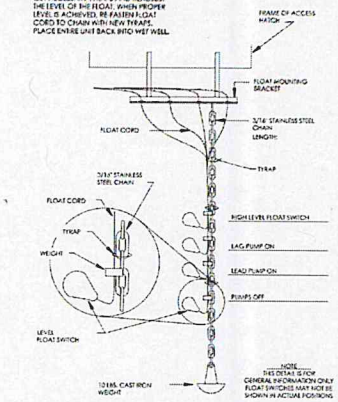




NEMA 3R WALL/POLE MOUNT CONTROL ENCLOSURE
DEAD FRONT w/ INNER DOOR

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	CONCRETE WET WELL	4'-0" DIA. x 14'-6" DEEP	1
2	CONCRETE FILLET	BY OTHERS	1
3	3" RISER	DIP, BY OTHERS	2
4	3" FORCE MAIN	BY OTHERS	1
5	2" CONDUIT	BY OTHERS	3
6	INFLUENT PIPE	BY CONTRACTOR	1
7	FLOAT MOUNTING BRACKET	STAINLESS STEEL, TO BE SHIPPED LOOSE - CONTRACTOR TO INSTALL IN FIELD	1
8	FLOAT: OFF LEVEL	METROPOLITAN SUBMERSIBLE LEVEL SWITCH	1
9	FLOAT: ONE PUMP ON	METROPOLITAN SUBMERSIBLE LEVEL SWITCH	1
10	FLOAT: TWO PUMPS ON	METROPOLITAN SUBMERSIBLE LEVEL SWITCH	1
11	FLOAT: ALARM LEVEL	METROPOLITAN SUBMERSIBLE LEVEL SWITCH	1
12	ANCHOR	10LBS CAST IRON, WITH STAINLESS STEEL CHAIN FOR LEVEL CONTROL MOUNTING	1
13	3" MTM ELBOW	BASE ELBOW 3" MTM	2
14	3" S.R. ELBOW	D.I. FITTING	2
15	3" PLUG VALVE		2
16	3" SWING CHECK VALVE	SUITABLE FOR VERTICAL INSTALLATION	2
17	APD300-24x38	DUPLEX ALUMINUM ACCESS HATCH	1
18	UPPER GUIDE RAIL SUPPORT	FOR 1 1/2" GUIDE RAILS (3" MTM SYSTEM)	2
19	1 1/2" GUIDE RAIL	SCHED. 40 STAINLESS STEEL PIPE	4
20	FA 08.41E	SUBMERSIBLE SEWAGE PUMP, 3" DISCHARGE	2
21	3" MTM SEALING FLANGE		2
22	3" VENT PIPING	BY OTHERS	1
23	3" TEE	D.I. FITTING	1
24	UPPER GUIDE RAIL STAND-OFF	STAINLESS STEEL	2

WHEN CHANGING FLOAT LEVELS, PULL CHAIN, ANCHOR, AND FLOATS OUT OF WET WELL. CUT NECESSARY TYRAPS AND READJUST THE LEVEL OF THE FLOAT. WHEN PROPER LEVEL IS ACHIEVED, RE-FASTEN FLOAT CORD TO CHAIN WITH NEW TYRAPS. PLACE ENTIRE UNIT BACK INTO WET WELL.



CHAIN AND ANCHOR LEVEL CONTROL MOUNTING DETAIL (N15)

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DATE	BY	REVISION	DATE	BY	REVISION

SCALE: 1:12
DRN. BY: F.U.
DATE: 6/27/2017
APP. BY:

METROPOLITAN INDUSTRIES, INC.
37 FORESTWOOD DR. ROMEOVILLE, ILLINOIS 60446
(815)886-9200 FAX (815)886-4573
PUMPS - CONTROLS - SYSTEMS

TITLE: DUPLEX METRO-RAIL COMPONENT LIFT STATION

PROJECT: DUPLEX STORM WATER LIFT STATION
PROJECT FRONTIER, 2816 S. KILBOURN AVE
CHICAGO, ILLINOIS

SHEET 1 OF 1
175W148-2206-17N

GHA GEWALT HAMILTON ASSOCIATES, INC.
625 Forest Edge Drive ■ Vernon Hills, IL 60061
TEL 847.478.9700 ■ FAX 847.478.9701

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DETAILS

ANTIOCH HIGH SCHOOL MAINTENANCE BUILDING
SCHOOL DISTRICT 117
1133 MAIN STREET, ANTIOCH, ILLINOIS 60002

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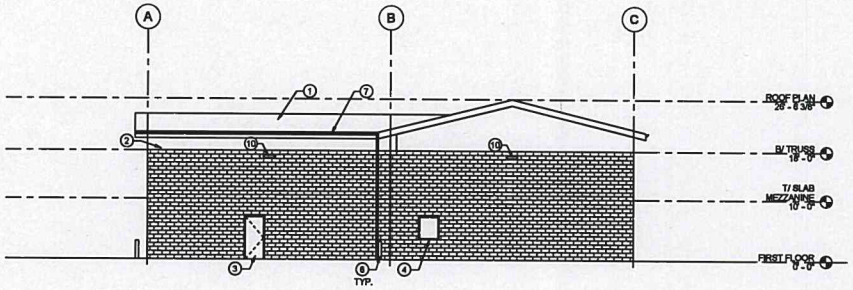
FILE: 4675.114-DT.dwg
DRAWN BY: JMB DATE 12/14/2021
GHA PROJECT # 4675.114
CHECKED BY: SAR DATE 12/14/2021
SCALE: N.T.S.
SHEET NUMBER: 10 OF 10 SHEETS

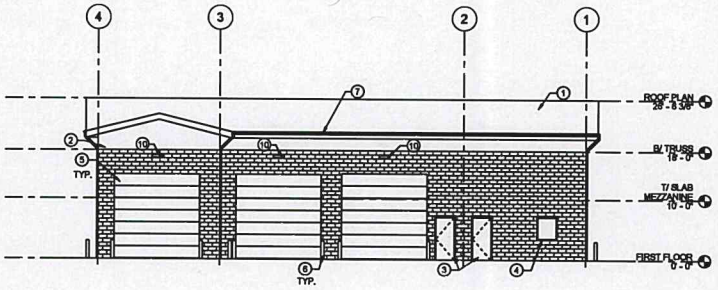
ILLINOIS LICENSE NUMBER: 184.000211

EXTERIOR ELEVATION KEYNOTES

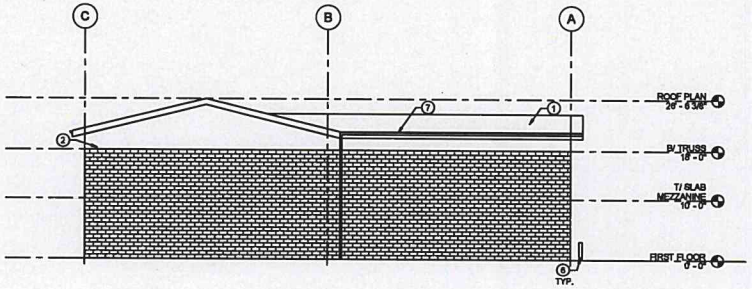
1 STANDING SEAM ROOF SYSTEM
2 CENTRIA WALL PANELS
3 HOLLOW METAL DOOR AND FRAME.
4 HOLLOW METAL WINDOW
5 SECTIONAL DOOR
6 BOLLARD. REFERENCE FLOOR PLAN.
7 5"x5" GUTTER
10 WALL MOUNTED LIGHT FIXTURE, 16'-8" AFF



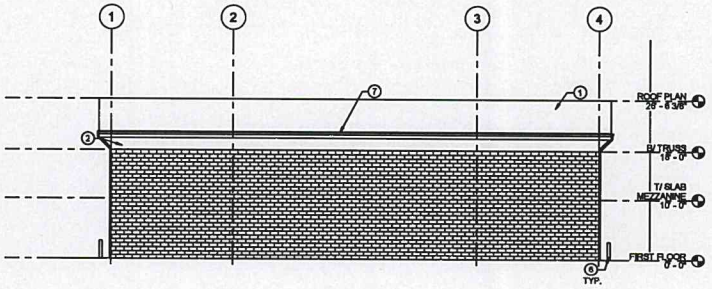
4 EAST ELEV
1/8" = 1'-0"



2 SOUTH ELEV
1/8" = 1'-0"



3 WEST ELEV
1/8" = 1'-0"



1 NORTH ELEV
1/8" = 1'-0"

NOT FOR CONSTRUCTION

GREEN ASSOCIATES
ARCHITECTURE
CONSTRUCTION SERVICES

ARCHITECT
GREENASSOCIATES, INC.
1427 HARMONY COURT
ITASCA, ILLINOIS 60143
847-317-8852

MEP ENGINEER
20/10 ENGINEERING GROUP LLC
1210 TOWER ROAD
SCHAUMBURG, ILLINOIS 60173
847-883-2610

STRUCTURAL ENGINEER
SL STRUCTURAL, PLLC
334 E COLD FAX STREET UNIT D
PALATINE, ILLINOIS 60067
224-214-6606

CIVIL ENGINEER
GERALT HAMILTON ASSOCIATES, INC
525 FOREST EDGE DRIVE
VERNON HILLS, IL 60061
847-478-6700

MAINTENANCE GARAGE

ANTIOCH COMMUNITY HIGH SCHOOL
1133 MAIN STREET, ANTIOCH, IL 60002
COMMUNITY HIGH SCHOOL DISTRICT 117
1625 DEEP LAKE ROAD, LAKE VILLA, IL 60046

EXTERIOR ELEVATIONS

DRAWN	CHECKED
AN	AW

ISSUE DATE
22 DEC 2021

REVISION SCHEDULE

NUMBER	DESCRIPTION	DATE

PROJECT NUMBER
0721-2021050

PROJECT PHASE
75% PROGRESS SET

SHEET
A-201

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