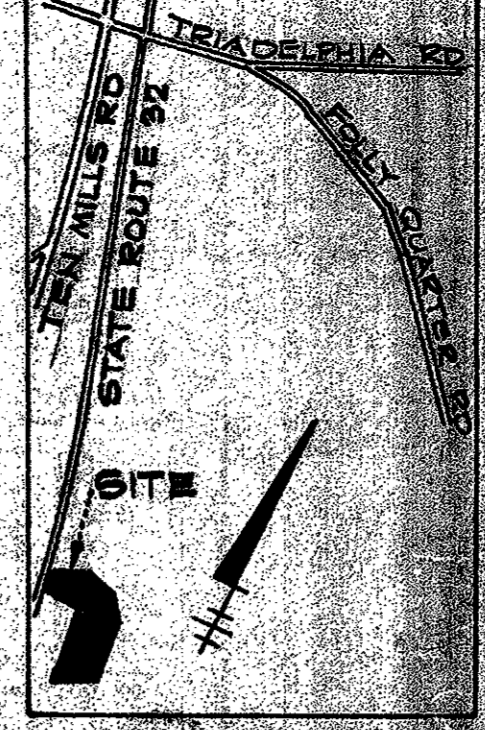


MD RTE 32



GENERAL NOTES

- Area of parcel to be developed with this plan 0.445 Acres Tax map # 28 Parcel # P-10 P-73
- Present zoning R district (Rural).
- Property is recorded in the Howard County land records, Liber 1075 Folio 270
- Parking requirements:
 - A- Use: Office
Floor area office space = 886 SF
Parking spaces req'd @ 15 spaces per 200 SF = 21
 - B- Use: Garage
Floor area garage space = 8714 SF
Parking spaces req'd @ 1 space per 500 SF = 17
 - C- Number of parking spaces provided = 43
- Building Coverage:
 - A- Maintenance building area = 9600 SF
 - B- Salt storage area = 5281 SF
 - C- Storage shed area = 1020 SF
 - D- Total building coverage = 16,801 SF or 0.386 Acres or 4.83% of site
- All paving and storm drains shall be constructed in accordance with the latest editions of the M.S.H.A. Specifications and the Howard County "Storm Drain Design Manual" and "Details For Construction"
- Types of structures are those given in the standard storm drain details of Howard County.
- The contractor shall notify Miss Utility at 559-0100 three days prior to the beginning of construction.
- The contractor shall notify the Howard County Construction Inspection/ Survey Division at 992-2418 twenty-four hours prior to the beginning of construction.
- Bench marks: 3/4" Pipe * 26 to elev = 568.05
1/2" Pipe * 11 to elev = 566.01
- METAL SHED AND SALT DOME STRUCTURES ARE NOT IN CONTRACT. GRADING AND PAVING SEE TO BE DONE AS IF STRUCTURES WERE SHOWN.



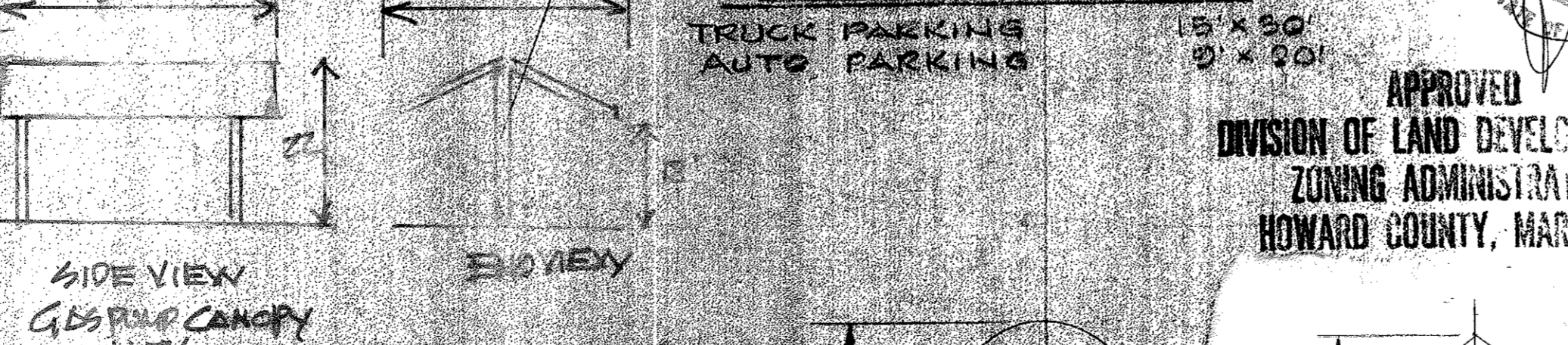
THIS AREA TO BE ACQUIRED BY HOWARD CO. 87° 13' 23" W 59.95' X 3/4" Pipe Found 22

Note: Remove fence between points G & 23. Relocate fence on property line between points G and E.

CROSS REFERENCE NOTES

- For top of curb elevations and layout dimensions see sheet # 2 of 6
- For security fence layout see sheet # 2 of 6
- For 5' of drainage swale stake-out see sheet # 2 of 6
- For profile of roads and drainage swales see sheet # 3 of 6
- For storm drain plan & profile see sheet # 3 of 6

ON OR AROUND FEBRUARY 28, 2014 CAPITAL PROJECT D-159, TITLED DAYTON SHOP WATER QUALITY RETROFIT, WAS CREATED TO REPAIR AND REPLACE BARREL PIPE, OUTFALL, AND IMPROVE WATER QUALITY OF THE EXISTING STORMWATER MANAGEMENT POND, ILLUSTRATED WITHIN THE LIMITS OF THIS PLAN. AN ALTERNATIVE COMPLIANCE WAS PROCESSED THROUGH THE DEPARTMENT OF PLANNING AND ZONING APPROVED ON MARCH 9, 2014. TO WAIVER SECTION 4.1.1.D.6 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. FOR THE DETAILED CONDITIONS OF APPROVAL AND THE CURRENT SITE CONDITIONS WITHIN THE DISTURBED PARKING SPACE AREA PLEASE SEE THE CAPITAL PROJECT PLANS.



APPROVED
DIVISION OF LAND DEVELOPMENT &
ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND

For Revision by TSI, Inc. only
Dated 11/15
Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 14230 Expiration 12/31/16

SCHEDULE OF CO-ORDINATES

POINT	NORTH	EAST
26	515050.71	805923.00
K	516241.97	805921.13
Z	516632.31	806639.58
G	516070.77	806502.93

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 16156 Expiration Date: 8-23-2016

10-26-01
11-30-01

ADD 8'-0" HIGH FENCE @ R/W AND RAISED CURB

DATE	NO.	DESCRIPTION
Nov. 2006	6	ADDED SALT STORAGE BLDG. AND TRAILER
6-30-2009	5	REMOVE/REPLACE TRAILER; NEW SHED
11-30-01	4	REVISED DIM. ON PROP. POL. SHED
10-26-01	3	ADDED DIMENSIONS PER DEF. MEND. 10-23-01
9/5/02	2	TRAILER - 6' x 12'
10-9-01	1	ADDED POLE SHED 15' x 15' STORAGE BLDG.

TITLE: GRADING PLAN

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE BY HOWARD COUNTY HEALTH DEPT.

COUNTY HEALTH OFFICER: DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR: DATE

CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION: DATE

APPROVED FOR STORM DRAINAGE SYSTEMS AND PRIVATE ROADS

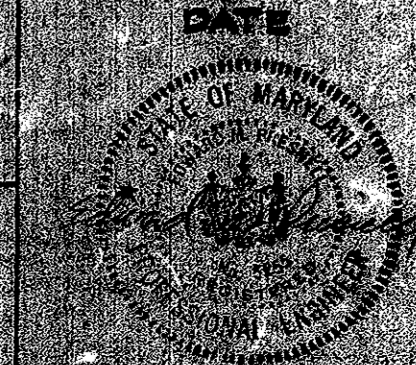
HOWARD COUNTY DEPT. OF PUBLIC WORKS: DATE

CHIEF BUREAU OF ENGR. DATE

WITZ & ASSOCIATES INC.
ENGINEERS & SURVEYORS
7222 KENNEDY RD
BALTIMORE, MARYLAND 21204

DATE: 8-2-92
C.P. 92-37

DESIGNED BY: [Signature]
DRAWN BY: [Signature]
PROJECT NO.: [Number]
DATE: [Date]
SCALE: [Scale]
SHEET NO. 1 OF 2



CONSTRUCTION SPECIFICATIONS FOR PONDS

- I - Site Preparations**
 Areas under the borrow areas, embankment and structural works shall be cleared, grubbed and the top soil stripped to remove all trees, vegetation, roots or other objectionable material. Channel banks and sharp breaks shall be sloped to no steeper than 1:1.
 Area covered by the pond or reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface.
 All cleared and grubbed material shall be disposed of outside the limits of the dam and reservoir as directed by the owner or his representative. When specified a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.
- II - Earth Fill**
Material - The fill material shall be taken from approved designated borrow area or areas. It shall be free of roots, stumps, wood, rubbish, over-sized stones, frozen or other objectionable material. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height all along the length of the embankment shall be increased above the design elevation (including freeboard) as shown on the plans.
Placement - Areas on which fills to be placed shall be scarified prior to placement of fill. Fill material shall be placed in 5-inch maximum thickness (before compaction) layers which are to be continuous over the entire length of the fill. The most porous borrow material shall be placed in the down stream portions of the embankment.
- III - Structural Backfill**
 Backfill material shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operations shall driven equipment be allowed to operated closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall the contractor drive equipment over any part of a concrete structure or pipe unless there is a compacted fill of twenty-four inches or greater over the structure or pipe.
- IV - Pipe Conduits**
A - Corrugated Metal Pipe
 1. Materials - (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specification M-100 Type A with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.
 2. Connections - All connections with pipes must be completely watertight. The draw pipe or barrel connection to the riser shall be welded all around when the pipe and riser are metal. Watertight coupling bands shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight.
 3. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
 4. Laying pipe - The pipe shall be placed with inside circumferential laps pointing down-stream and with the longitudinal laps at the sides.
 5. Backfilling shall conform to structural backfill as shown above.
- B - Stabilization** All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, fertilizing and mulching (if required) in accordance with the vegetative treatment specifications shown on or accompanying the drawings.

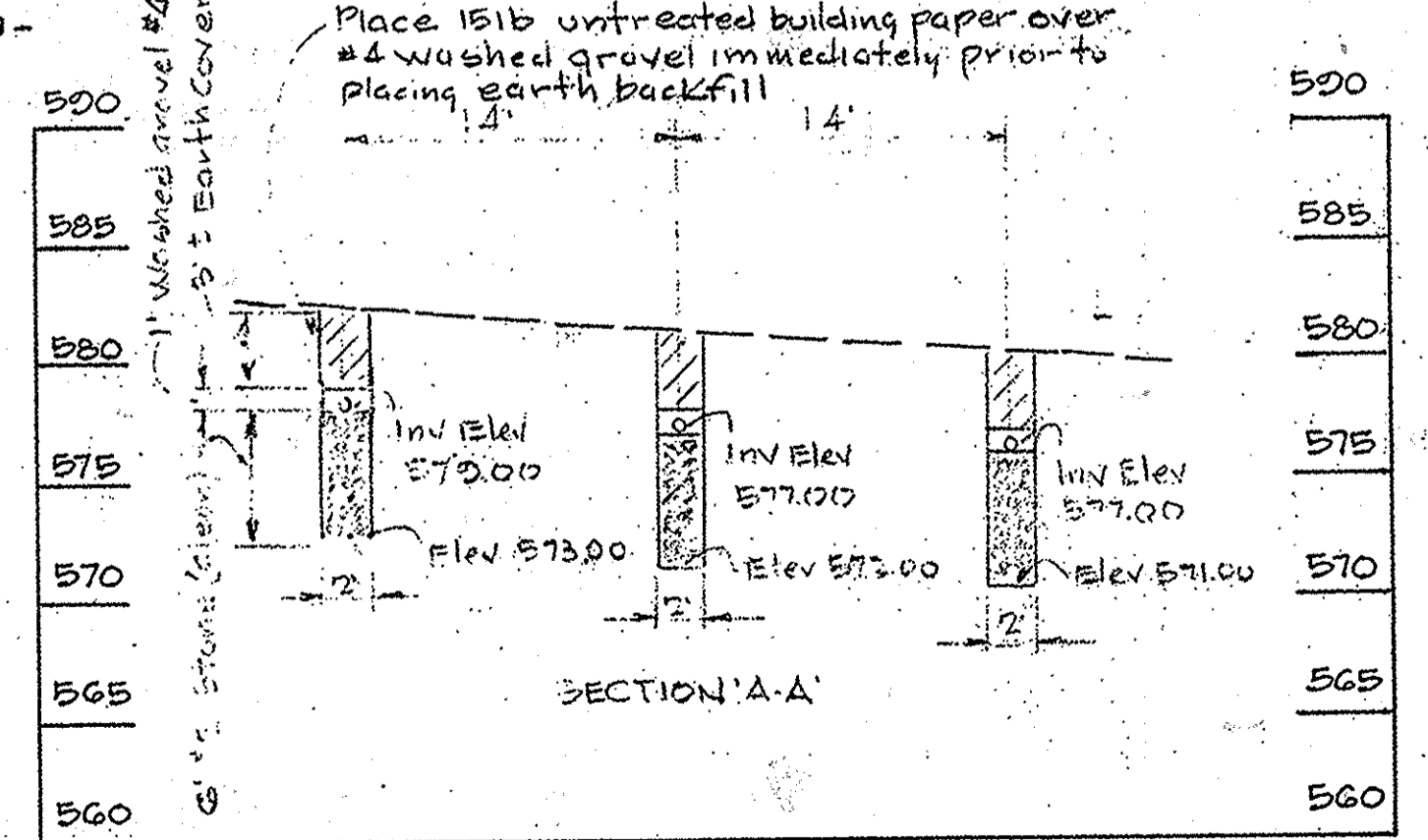
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 16156 Expiration Date: 8-28-2016



FOR REVISION NO. 2
 6-30-15

FOR REVISION NO. 1
 DATE NO

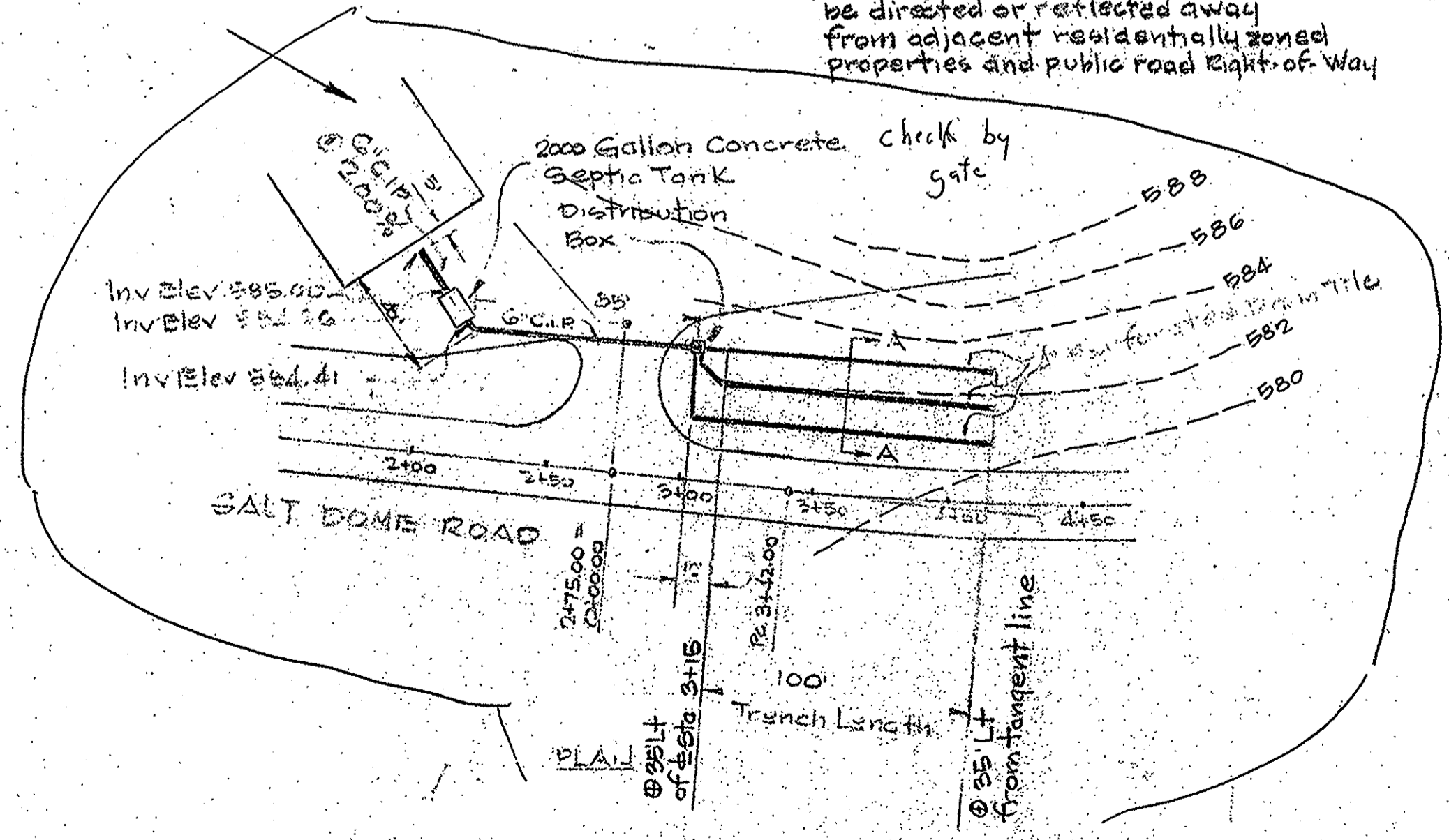
SANITARY SYSTEM DISPOSAL TRENCH SECTION
 Scale: 1" = 5' Vert & Horiz



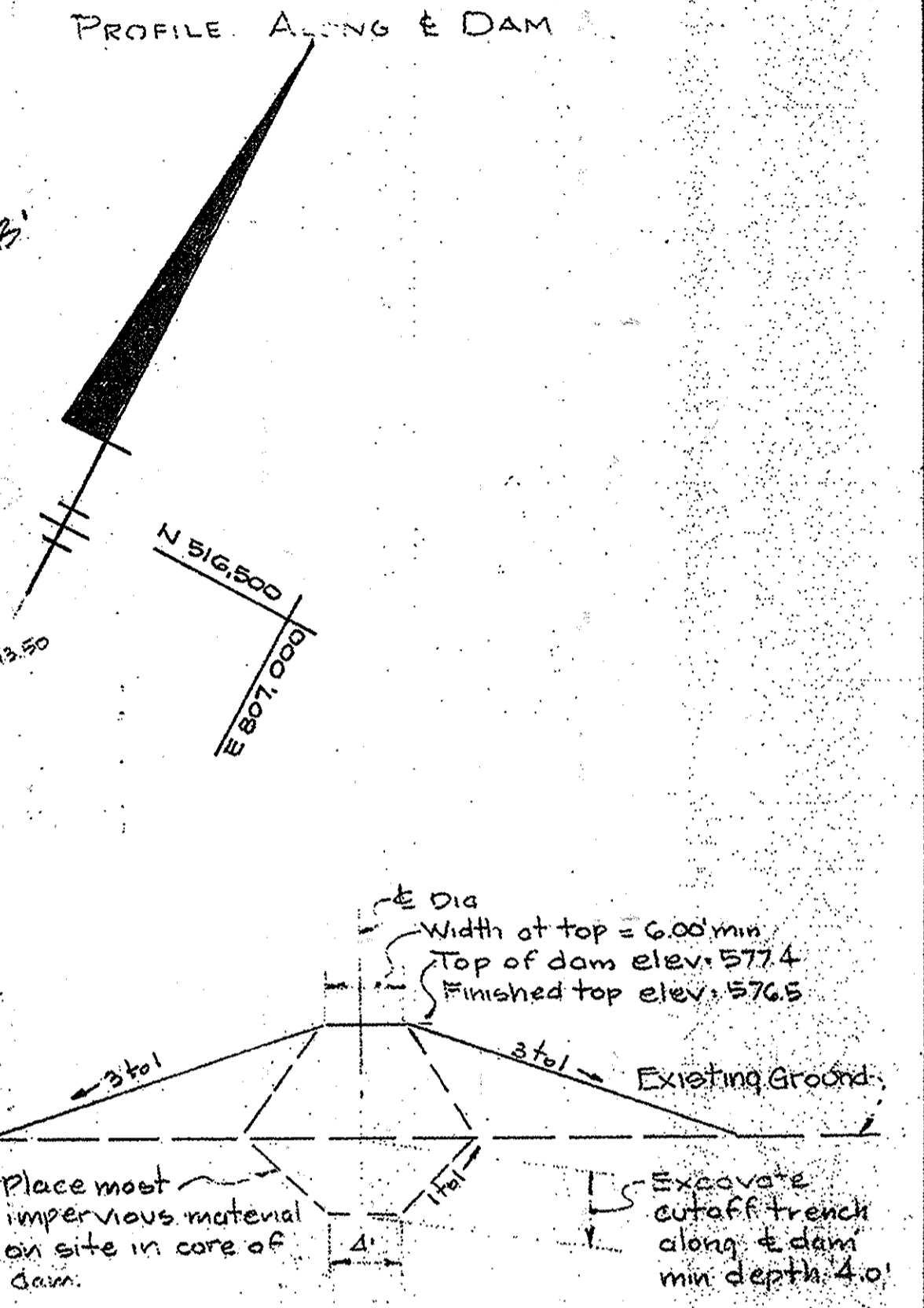
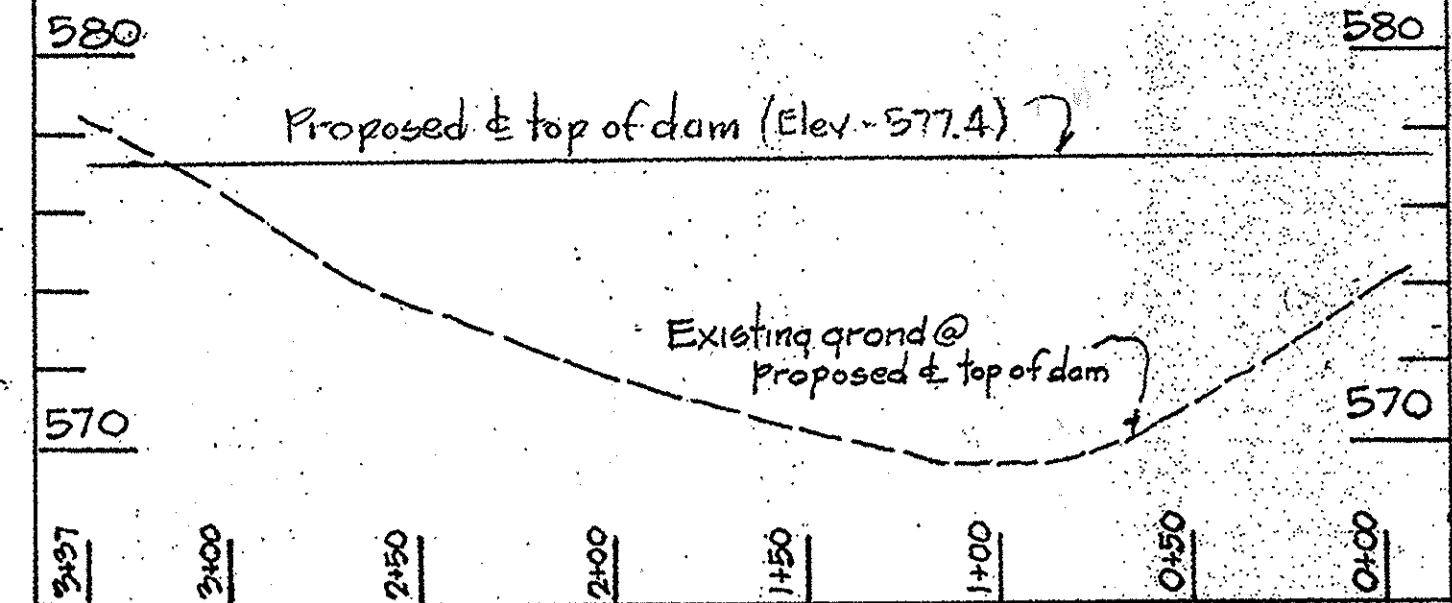
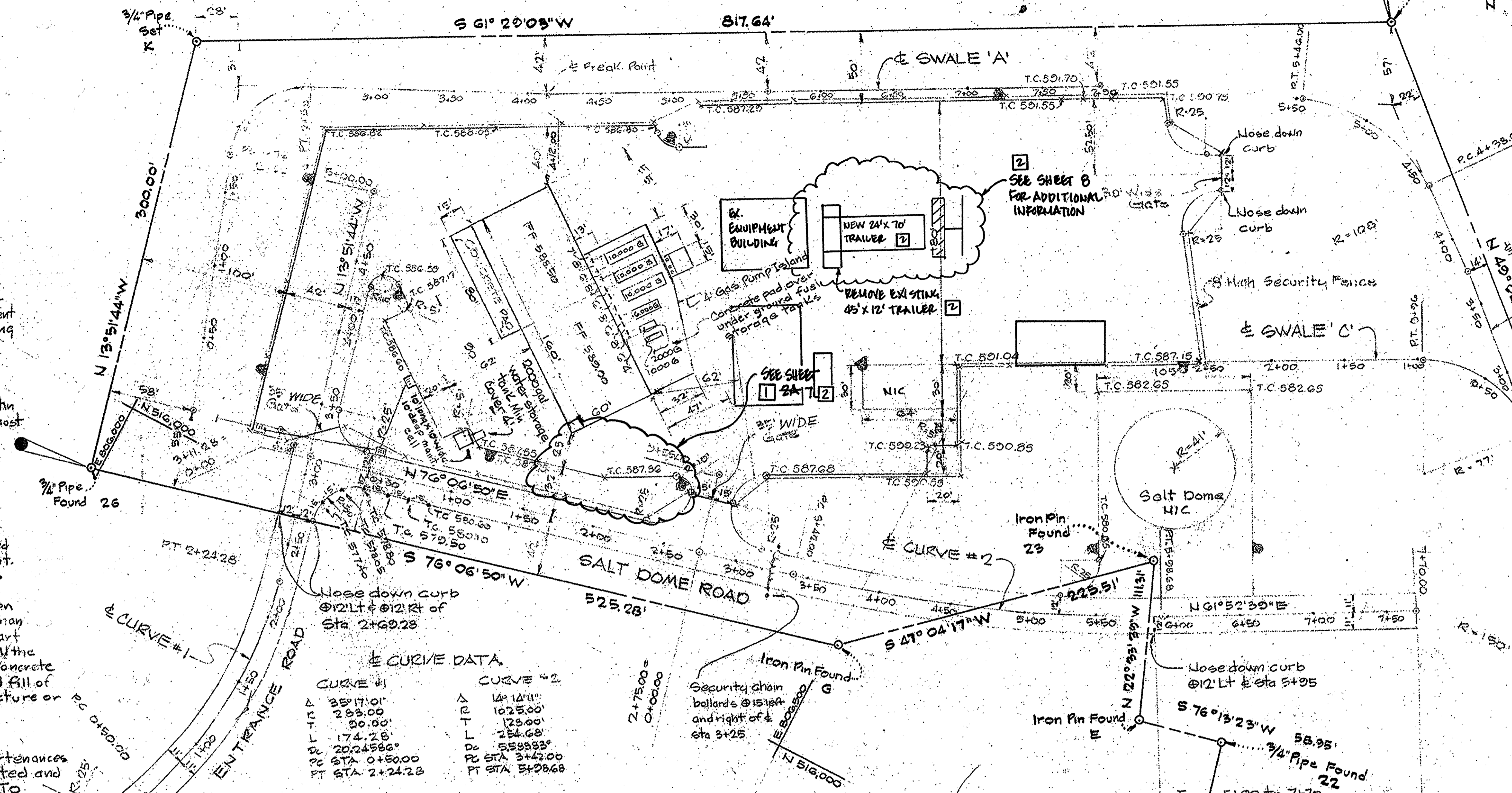
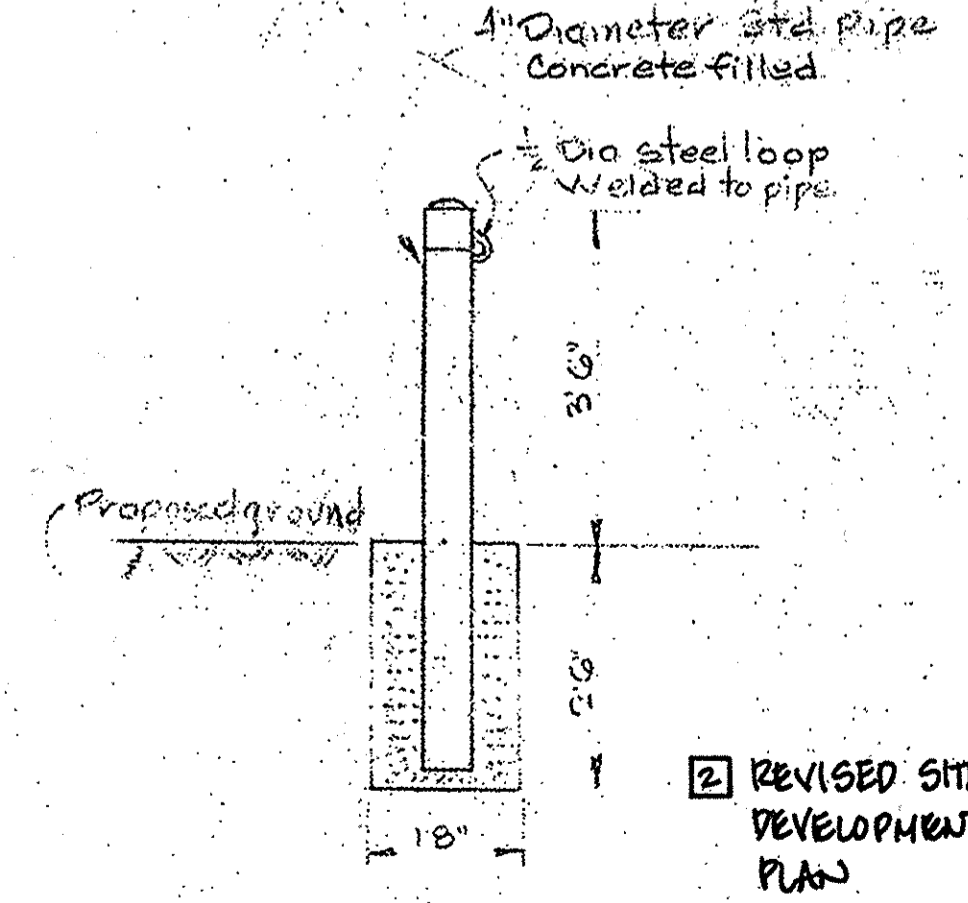
SANITARY CONSTRUCTION SEQUENCE

- 1- Site sediment control measures to be installed.
- 2- Septic system to be installed prior to site grading.
- 3- Health Dept shall inspect open trenches prior to placement of any filterstone.

SANITARY SYSTEM DETAIL
 Scale: 1" = 5'



BOLLARD DETAIL
 Scale: 1/2" = 1'



TYPICAL SECTION THROUGH EARTH EMBANKMENT DAM SEDIMENT BASIN #1
 No Scale

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPT.
 COUNTY HEALTH OFFICER
 DATE: 2-17-82

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 PLANNING DIRECTOR
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
 DATE: 3-2-82
 DATE: 2-8-82

APPROVED: FOR STORM DRAINAGE SYSTEMS AND PRIVATE ROADS
 HOWARD COUNTY DEPT. OF PUBLIC WORKS
 DIRECTOR
 CHIEF, BUREAU OF ENGR.
 DATE: 2-11-82

WITZ ASSOCIATES INC.
 ENGINEERS & SURVEYORS
 7222 KENNEDY BLVD
 BALTIMORE, MARYLAND 21207
 DATE: 2-2-82
 SDP-82-87
 DESIGNED BY: E.M.P.
 DRAWN BY: F.P. & J.C.
 PROJECT NO.: 82-14
 DATE: Jan 18 1982
 SCALE: 1/8" = 1'-0"
 DRAWING NO. 2 OF 2
 SDP 82-87

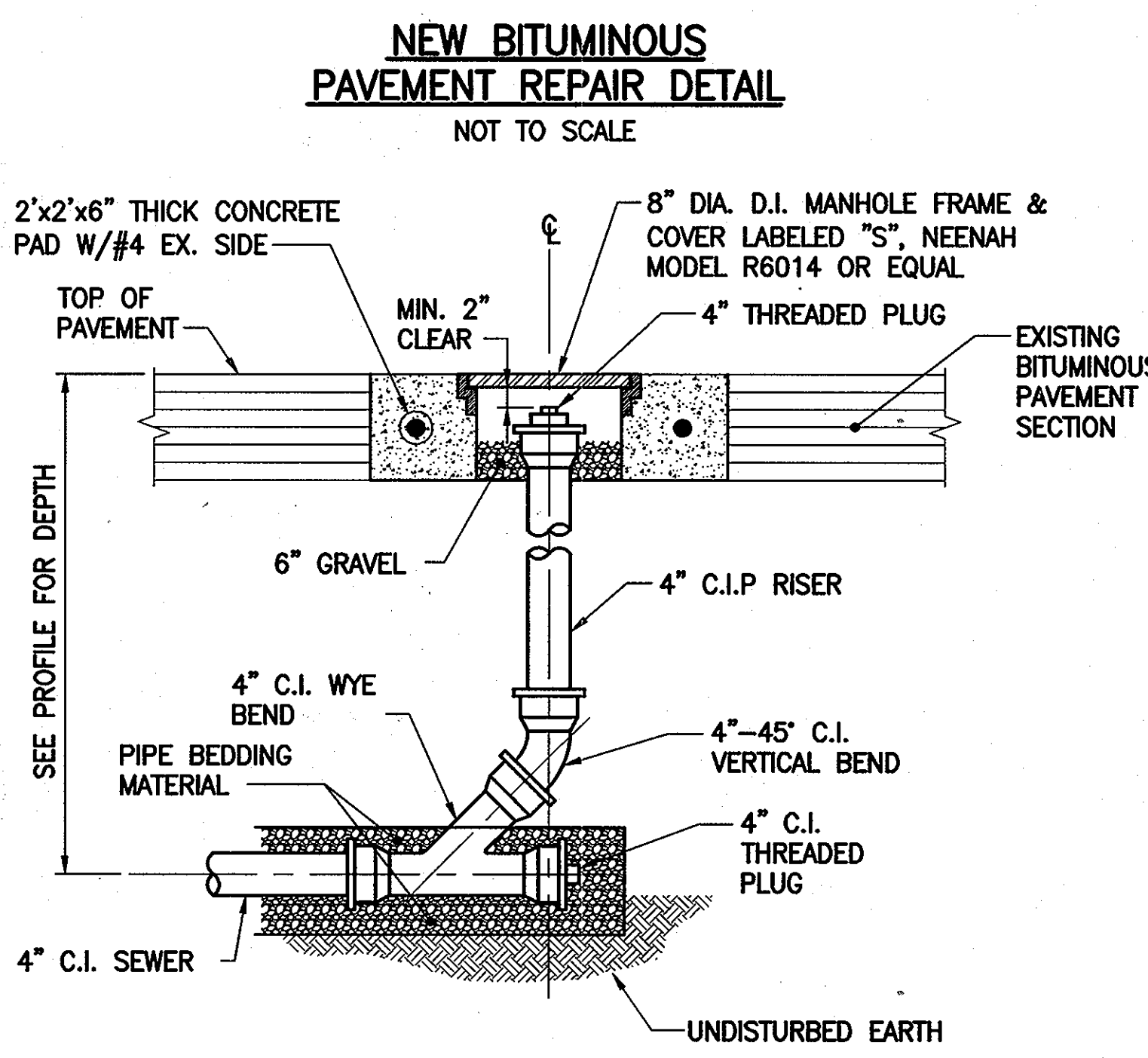
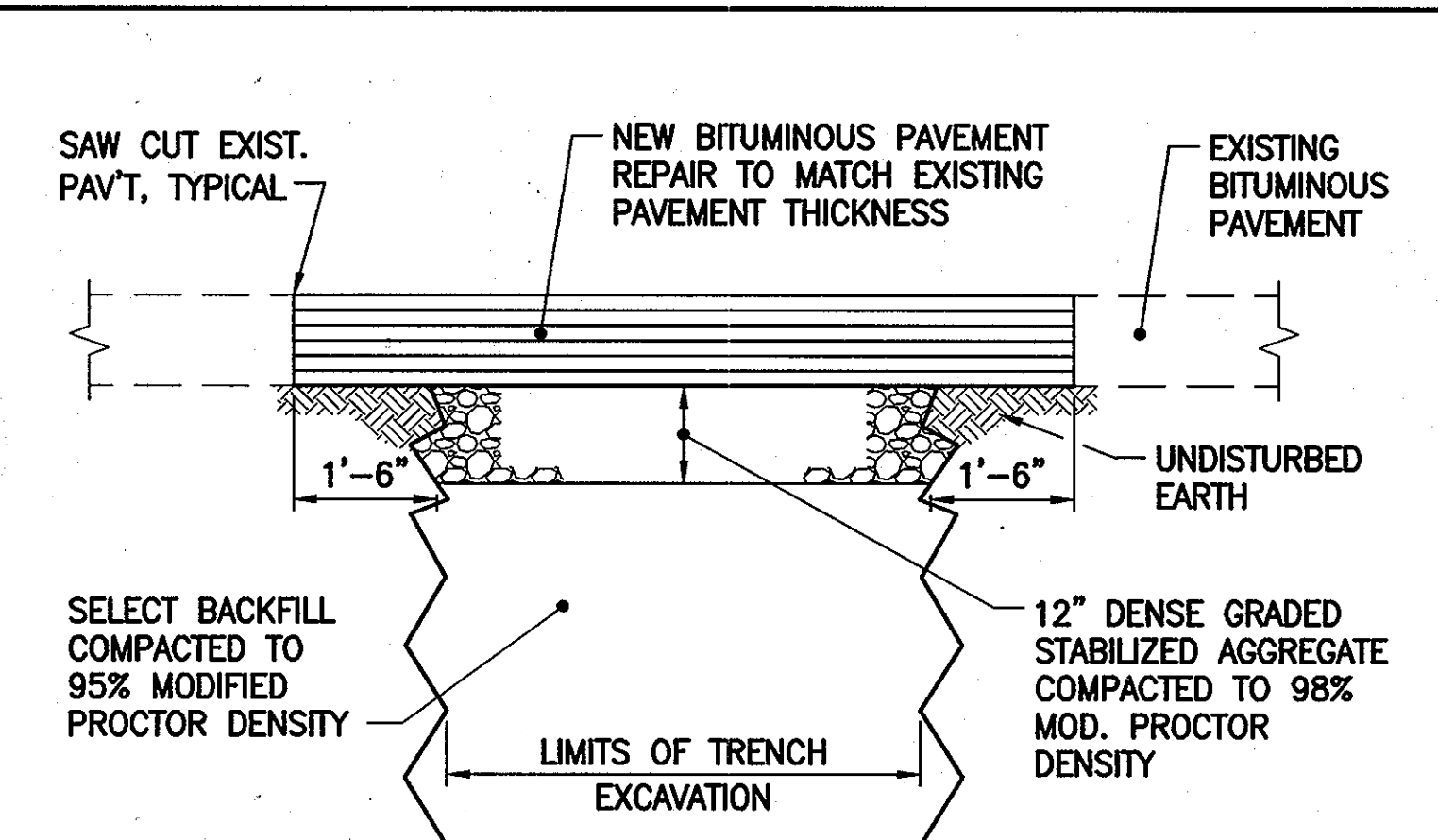
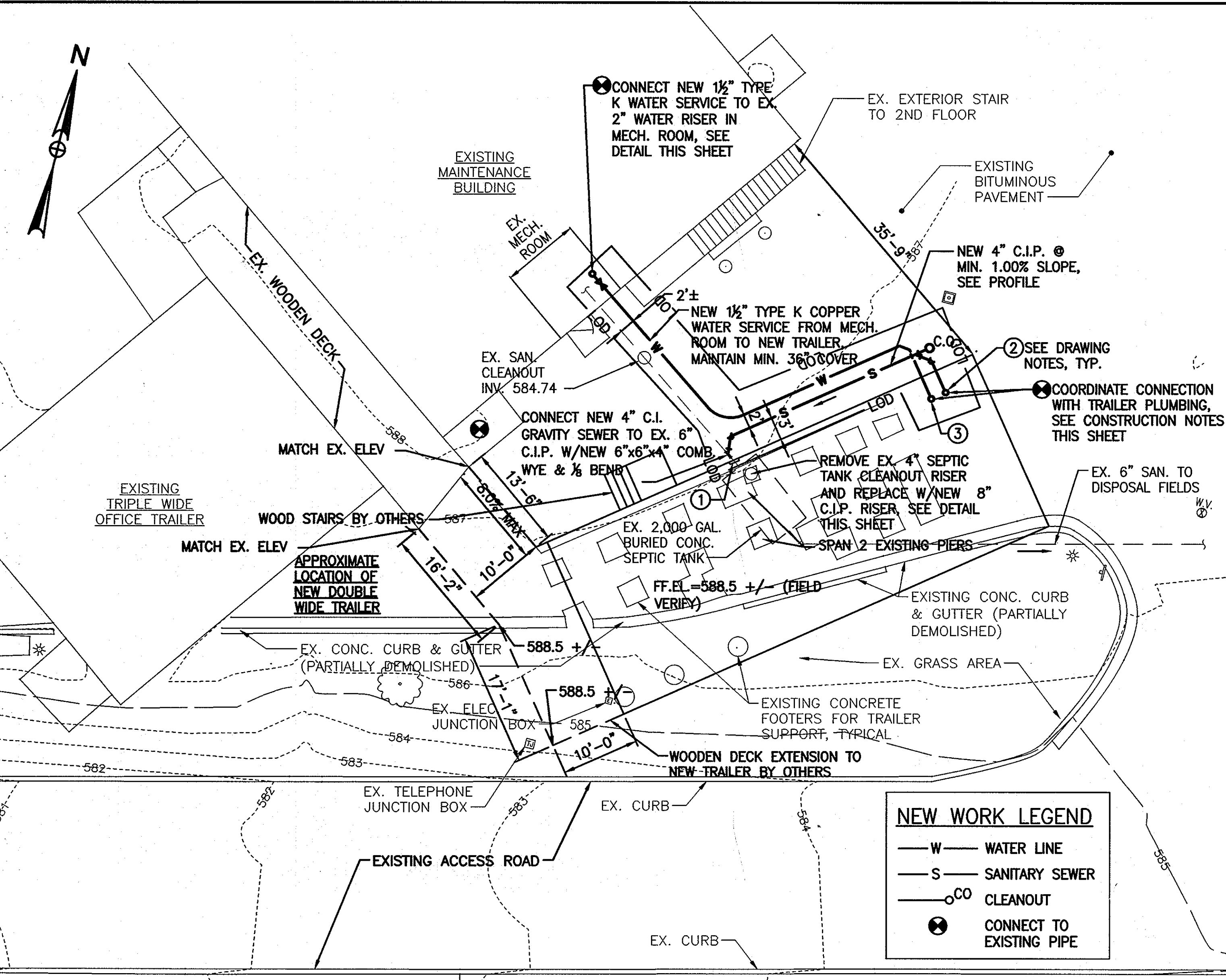
OWNER/DEVELOPER:
 HOWARD COUNTY DEPT. OF PUBLIC WORKS
 GENERAL PROJECTS DIVISION PHONE # 392-2040

REV. NO.	DATE	DESCRIPTION
1	JAN 20 1982	REVISED SHEET NUMBER FOR SALT STORAGE BUILDING
2	JAN 20 1982	REVISION NO. 2 - REMOVED REPLACE TRAILER
3	JAN 20 1982	REVISION NO. 1 - FOR NEW TRAILER

TITLE: DETAILS
 AREA:

PROJECT: HOWARD CO. CENTRAL MAINT FACILITY
 Owners Address: 3420 Courthouse Dr. Ellicott City, Md 21043



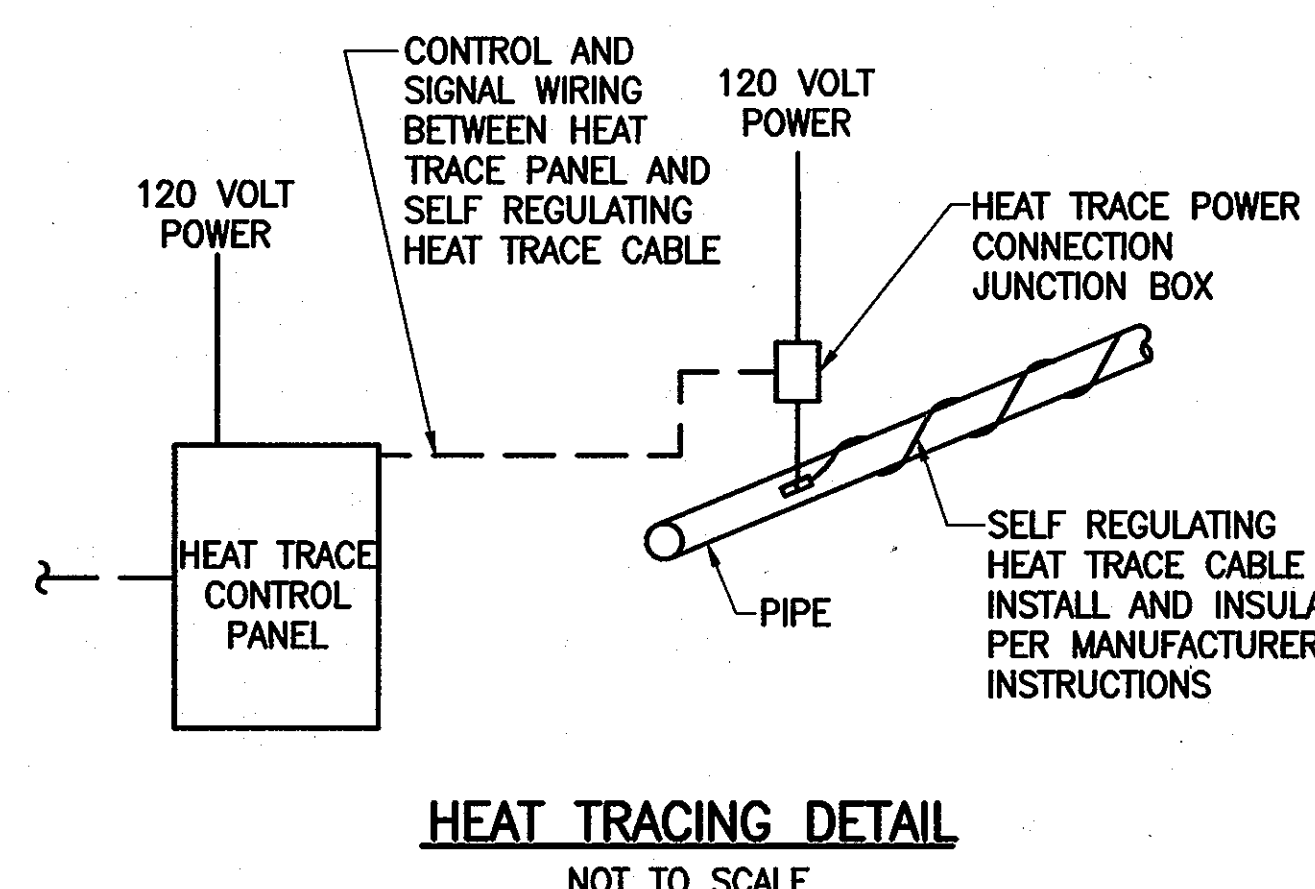
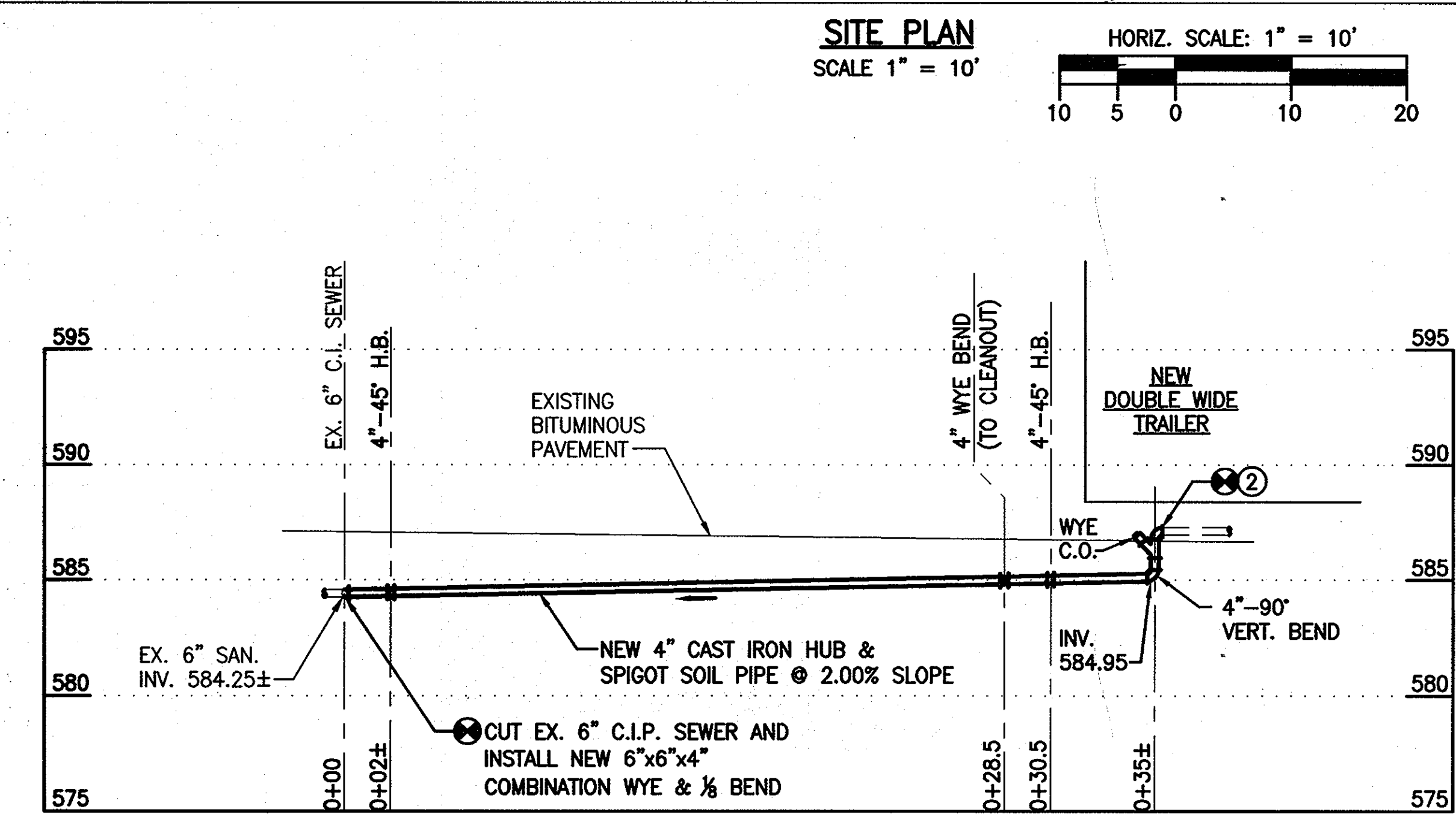
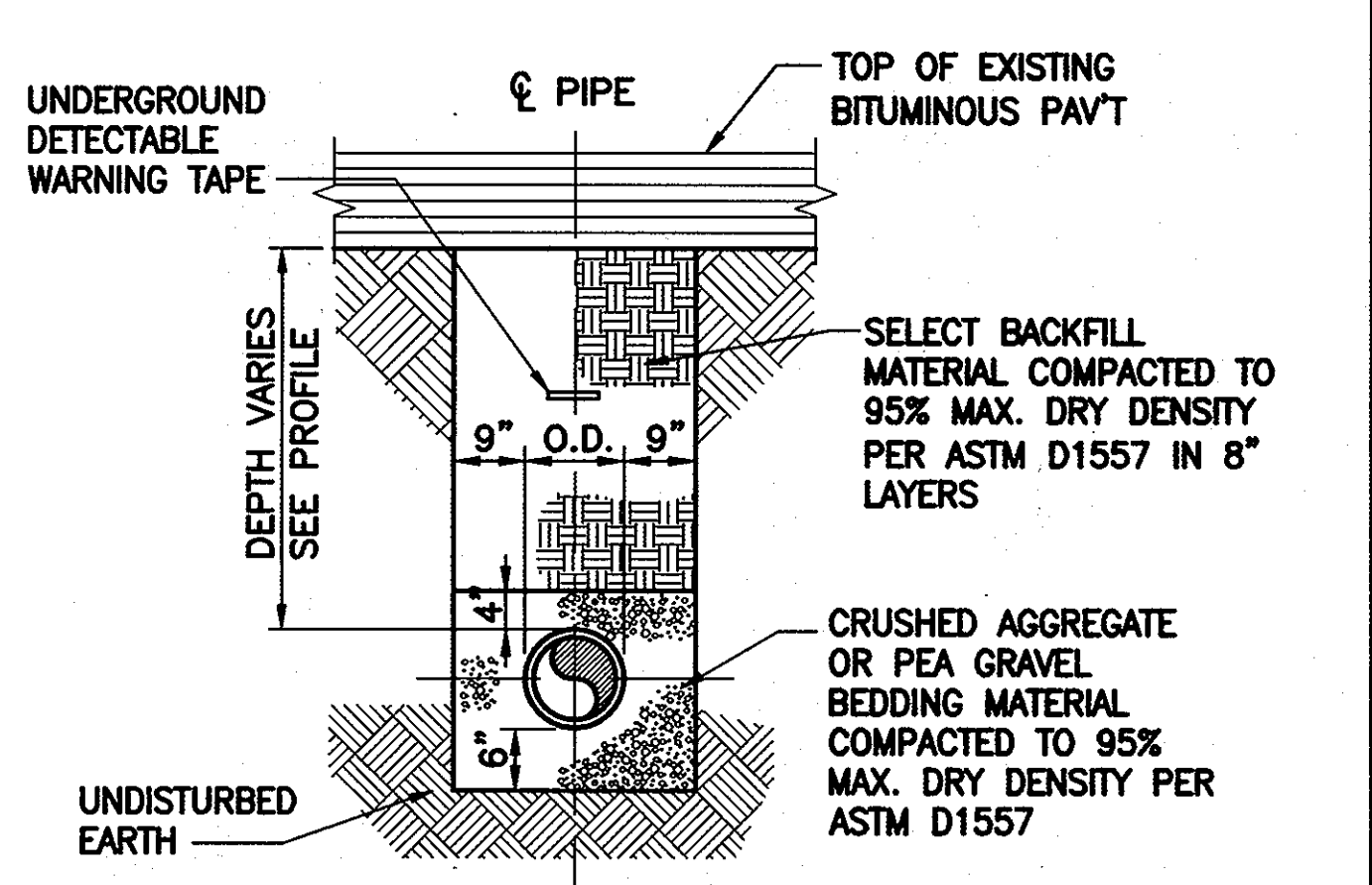


- GENERAL CONSTRUCTION NOTES**
1. THOROUGHLY INSPECT THE SITE PRIOR TO CONSTRUCTION TO VERIFY EXISTING CONDITIONS AND PROVIDE ALL NECESSARY STAKE OUT OF LINE AND GRADE FOR PIPE INSTALLATION.
 2. COORDINATE ALL WORK AND PROJECT SCHEDULES WITH THE MAINTENANCE FACILITY SUPERVISOR AND OBTAIN APPROVAL PRIOR TO MAKING CONNECTIONS TO EXISTING WATER AND SEWER PIPING. CONTRACTOR SHALL MAINTAIN UNINTERRUPTED WATER AND SEWER SERVICE TO THE FACILITY EXCEPT WHERE SPECIFICALLY AUTHORIZED BY THE FACILITY SUPERVISOR.
 3. ALL EXCAVATION, TRENCHING, SHEETING AND BRACING SHALL BE INSTALLED AS REQUIRED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS INCLUDING O.S.H.A.
 4. PROVIDE ADEQUATE BARRICADES AROUND TRENCH HOLE EXCAVATIONS AS SPECIFIED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL.
 5. EXISTING PAVEMENT SHALL BE SAW CUT WITH NEAT, CLEAN, PARALLEL, STRAIGHT LINES. GRADES OF NEW PAVEMENT SHALL BLEND SMOOTHLY WITH EXISTING GRADES.

- DRAWING NOTES**
- ① PROVIDE 30" WIDE REMOVABLE SECTION AT BOTTOM OF NEW TRAILER SKIRT TO ALLOW FOR ACCESS TO SEPTIC TANK CLEANOUT LOCATED UNDER NORTH SIDE OF TRAILER (SEE SITE PLAN THIS SHEET)
 - ② CONNECT NEW 4" C.I.P. UNDERGROUND SEWER TO NEW TRAILER C.I. RISER PIPE UNDER TRAILER. ALL EXPOSED SANITARY WASTE & VENT PIPING UNDER TRAILER SHALL BE INSULATED WITH 1" FLEXIBLE ELASTOMERIC WITH ALUMINUM JACKET.
 - ③ CONNECT NEW 1/2" UNDERGROUND TYPE K COPPER WATER SERVICE TO NEW 1/2" WATER LINE UNDER TRAILER. ALL EXPOSED WATER SERVICE PIPING UNDER TRAILER SHALL BE HEAT TRACED (5 WATTS/LF) AND INSULATED WITH 1" FLEXIBLE ELASTOMERIC WITH ALUMINUM JACKET.

THE PROPOSED USE OF THE TRAILER IS TO PROVIDE CREW TRAILER WITH LOCKERS, SHOWERS, AND A MEETING SPACE.

ALL ELEVATIONS AND DIMENSIONS TO EXISTING FACILITIES SHOWN HEREIN ARE APPROXIMATE AND MUST BE FIELD VERIFIED.



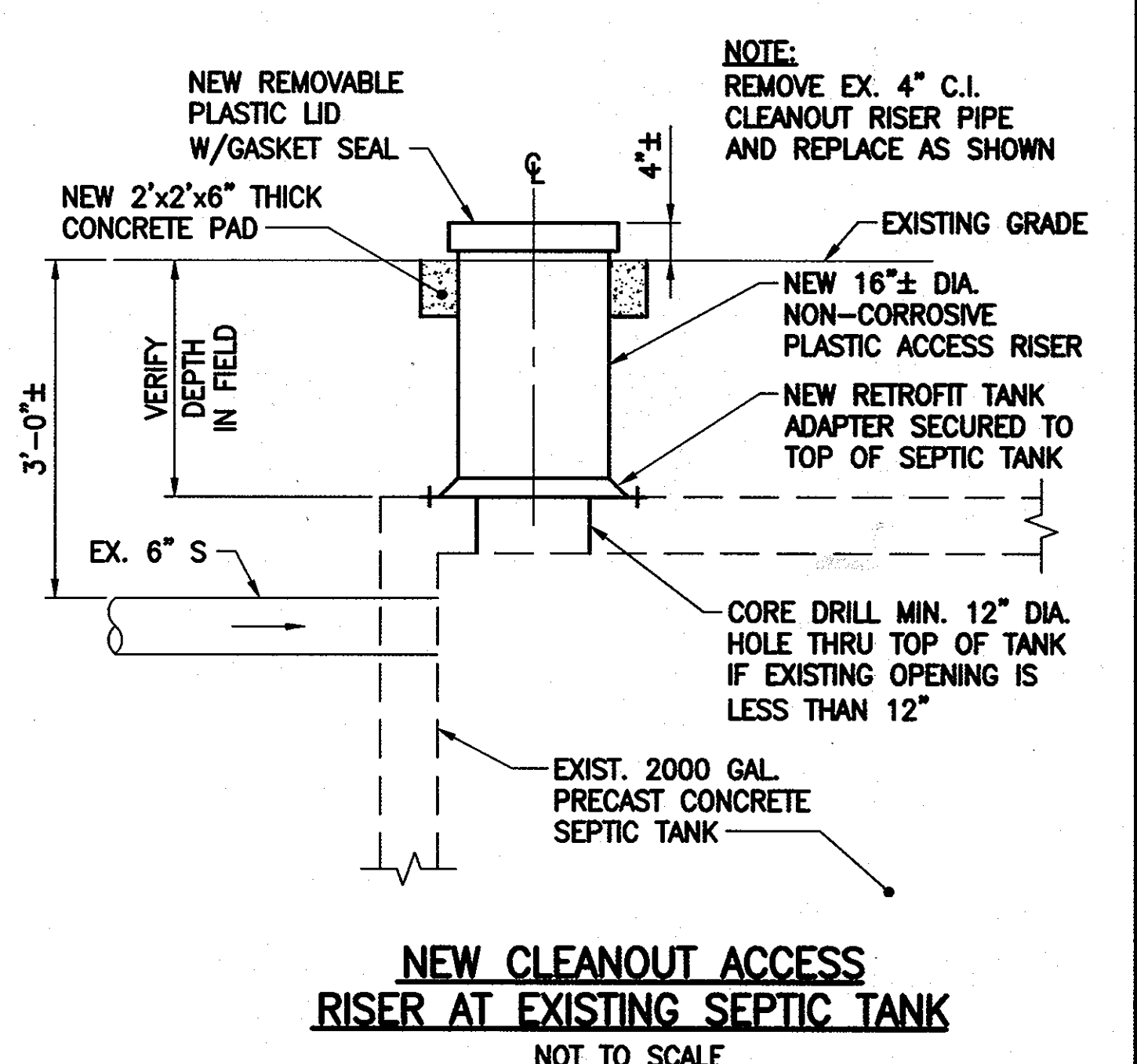
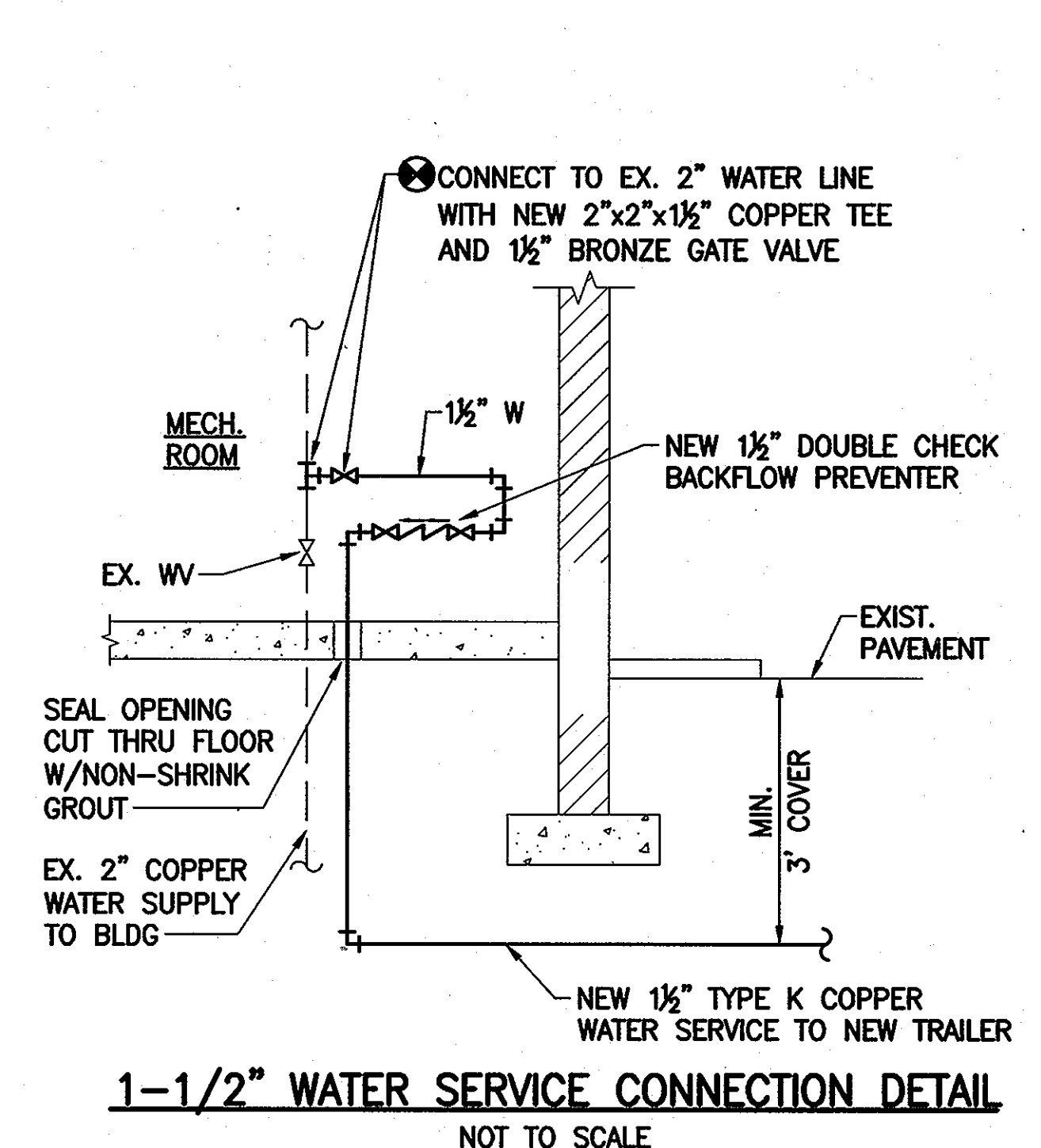
PURPOSE STATEMENT: THE PURPOSE OF THIS REVISED SITE DEVELOPMENT PLAN IS FOR A NEW WATER CONNECTION AND A REPLACEMENT OF THE EXISTING CREW TRAILER.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division DATE: 1-30-13

Chief, Division of Land Development DATE: 1-31-13

Director DATE: 1/31/13

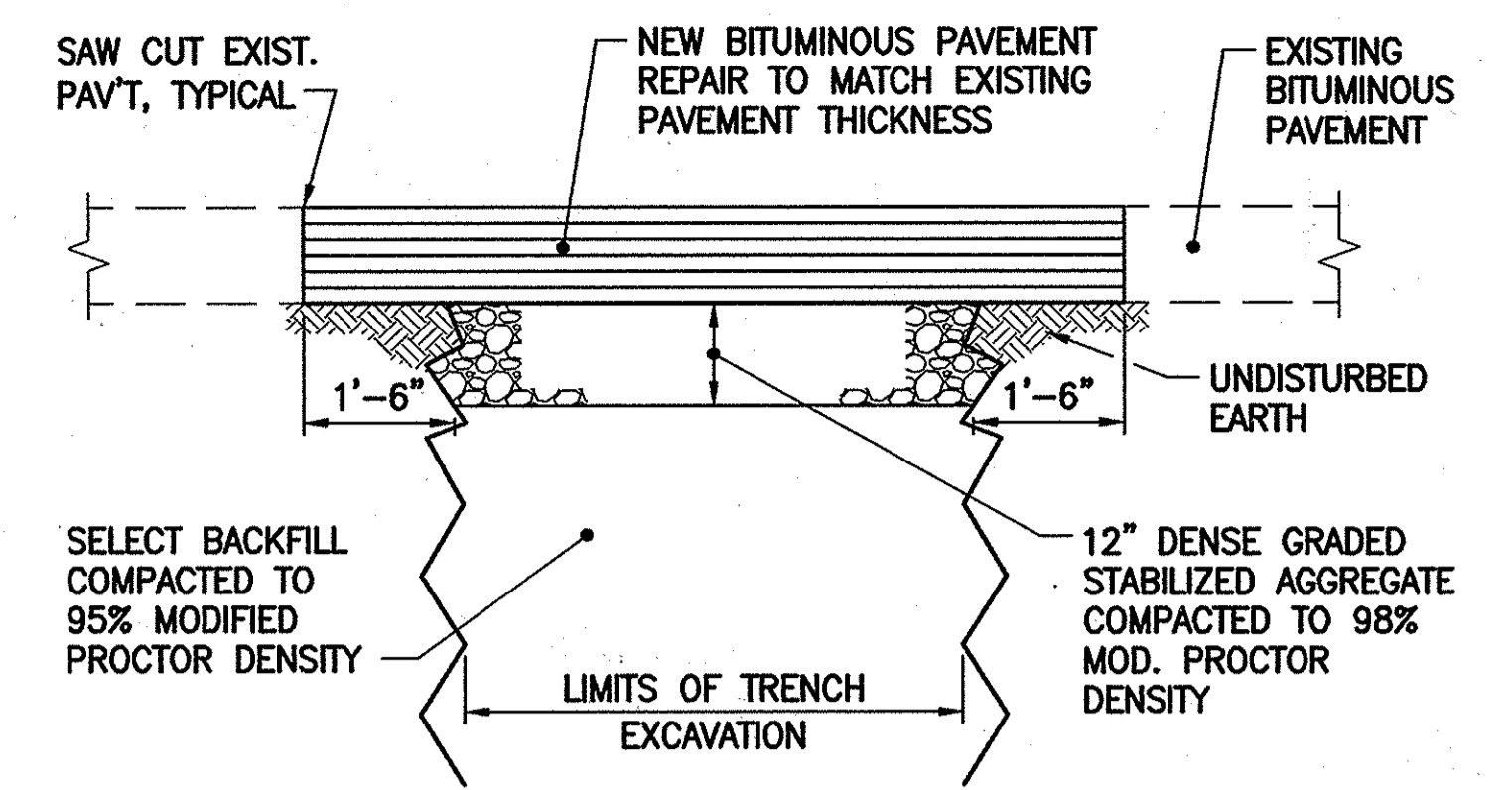
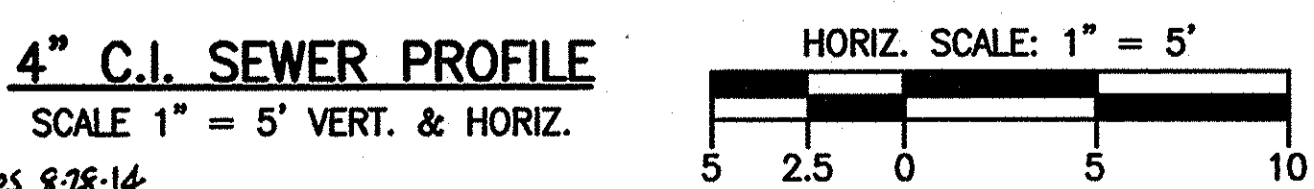
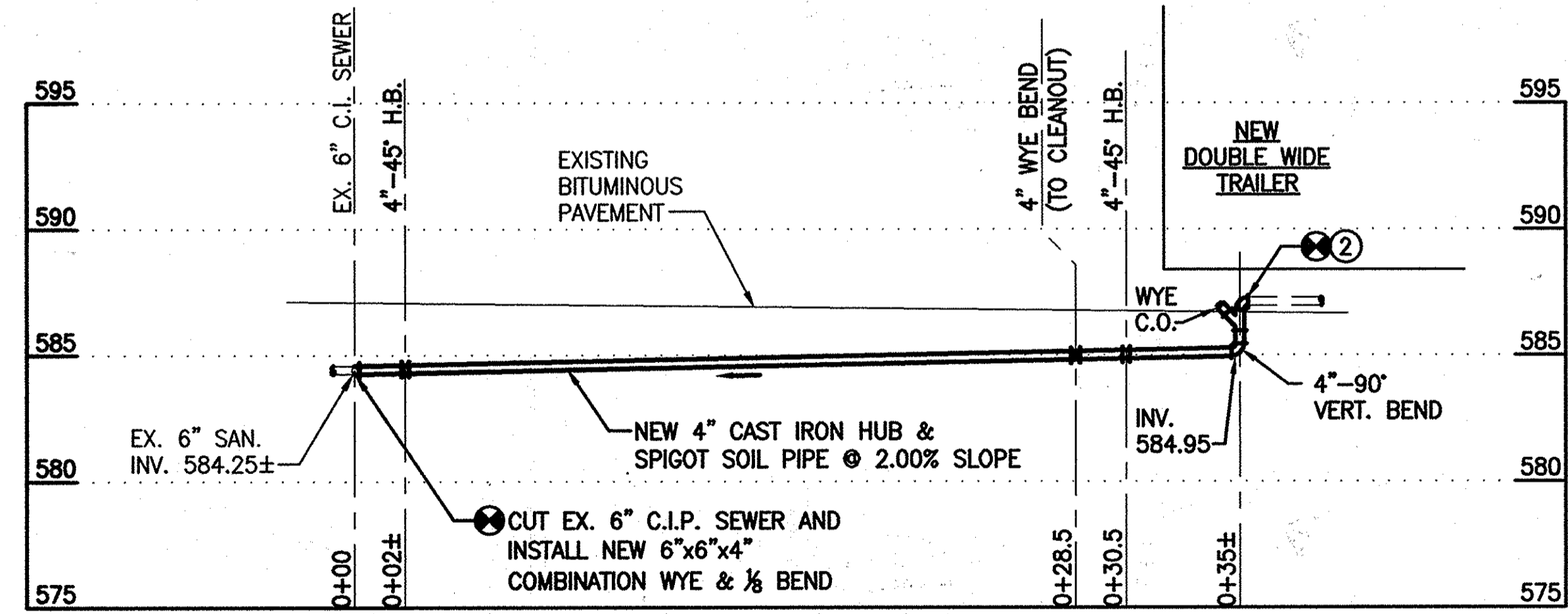
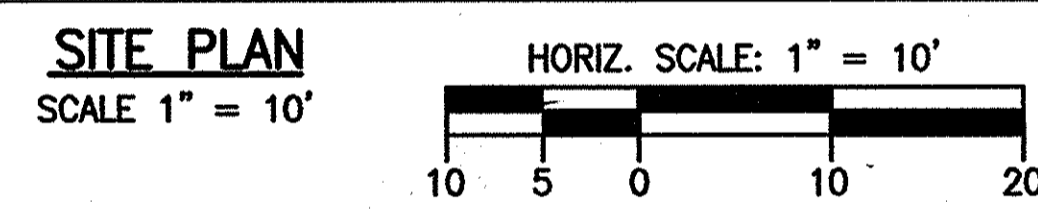
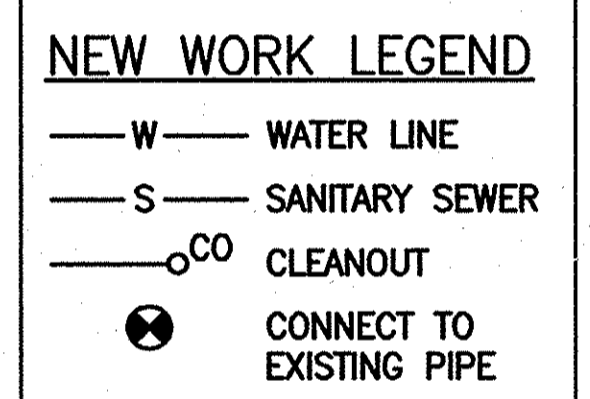
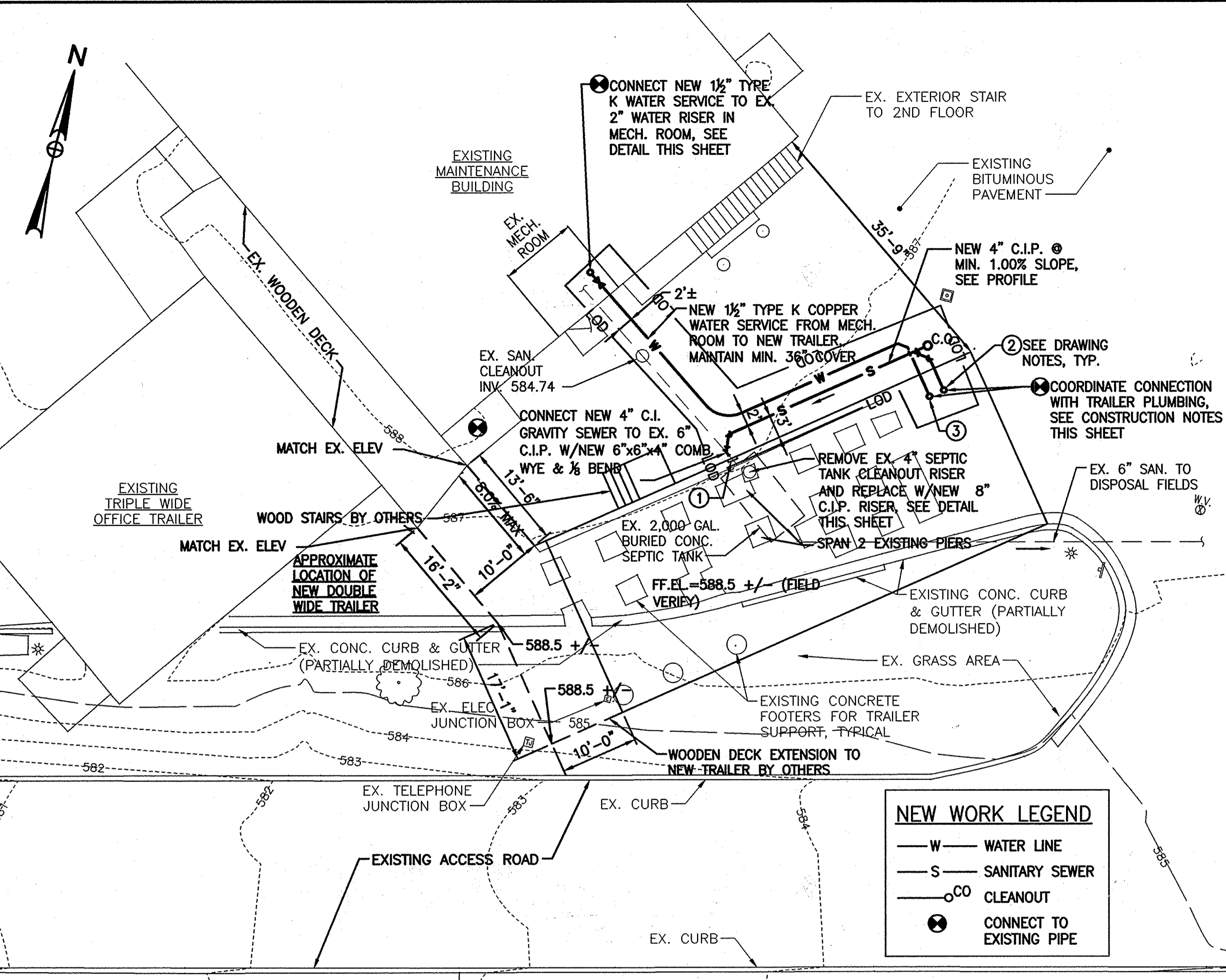


DES: RER	DTM	1	SDP 82-087 REDLINE NO. 1 (NEW SHEET)	1/2013
DRN: CDF/JRG			REVISED TO INCORPORATE A NEW CREW TRAILER	
CHK: DTM				
DATE: 01/23/13	BY NO.		REVISION	DATE

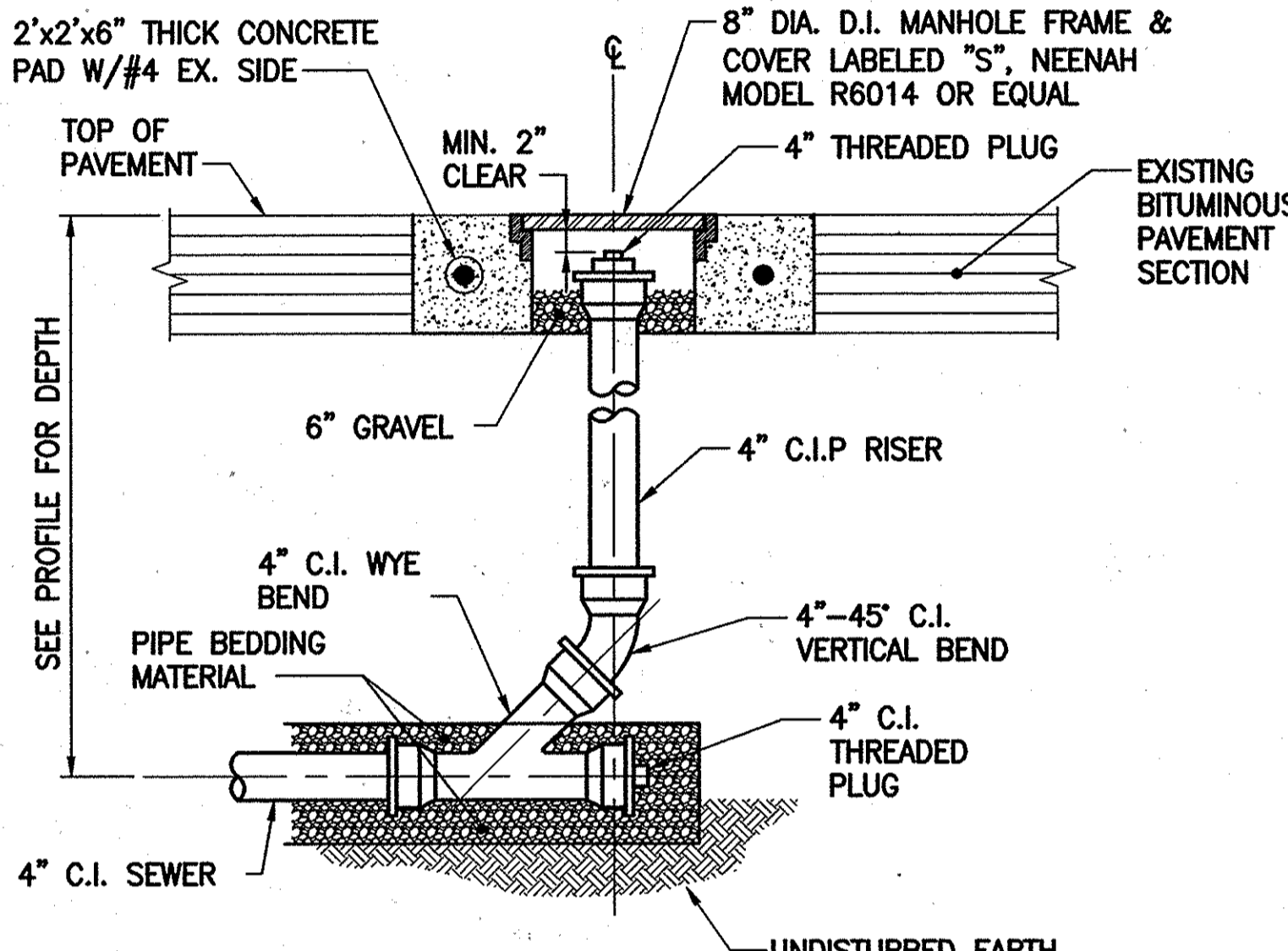
OWNER:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3430 COURTHOUSE DRIVE
ELLCOTT CITY, MD 21043
PHONE: 410-313-4401

DEVELOPER:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
4301 STATE ROUTE 32
DAYTON, MARYLAND 21036
PHONE: 410-313-7450

HOWARD CO. CENTRAL MAINT. FACILITY
REVISED SITE DEVELOPMENT PLAN
WATER AND SEWER SERVICE TO NEW DOUBLE-WIDE TRAILER **SHEET 2A OF 6**



NEW BITUMINOUS PAVEMENT REPAIR DETAIL
NOT TO SCALE



GRAVITY SEWER CLEANOUT DETAIL
NOT TO SCALE

GENERAL CONSTRUCTION NOTES

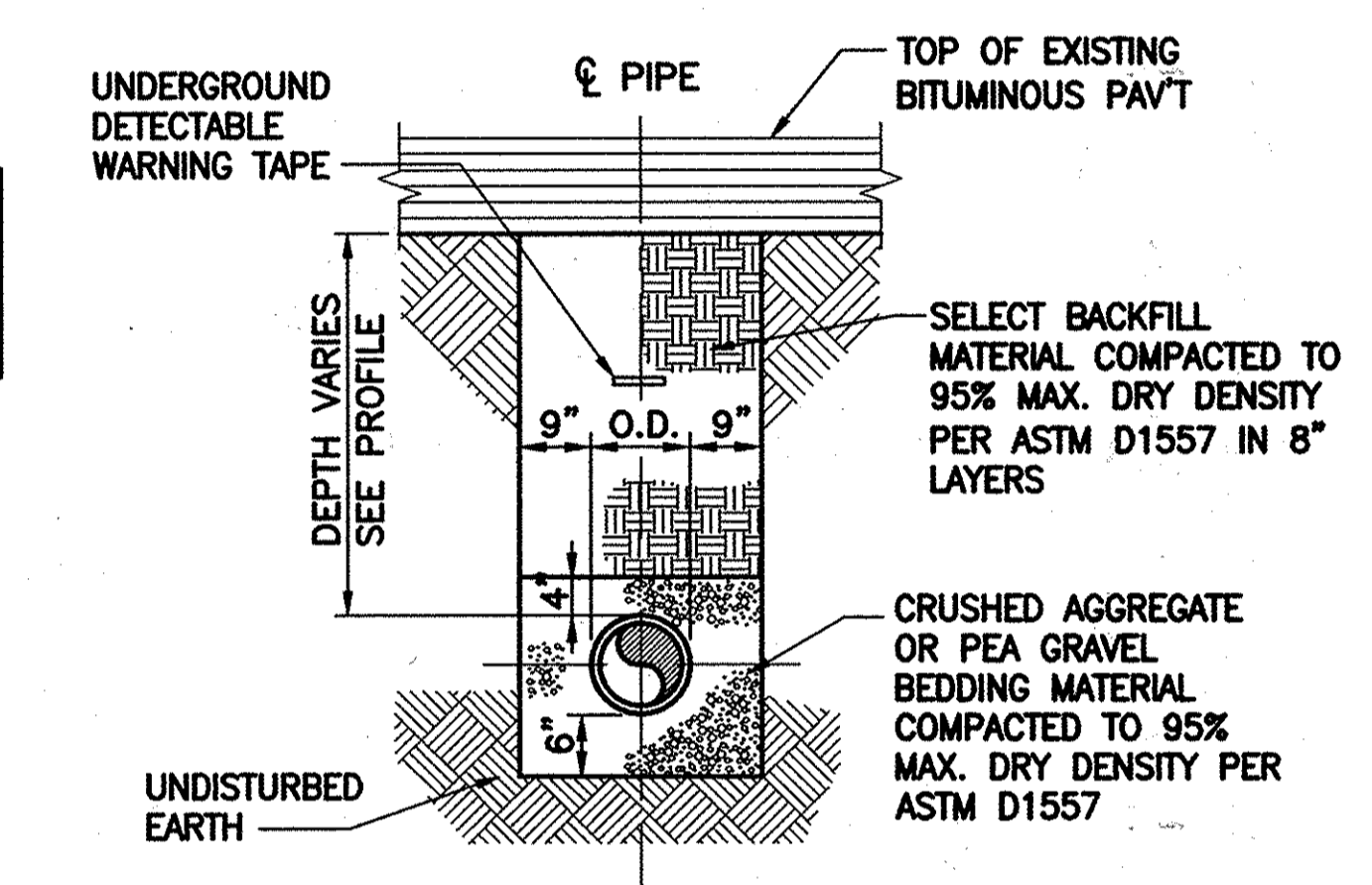
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DRAWING NOTES

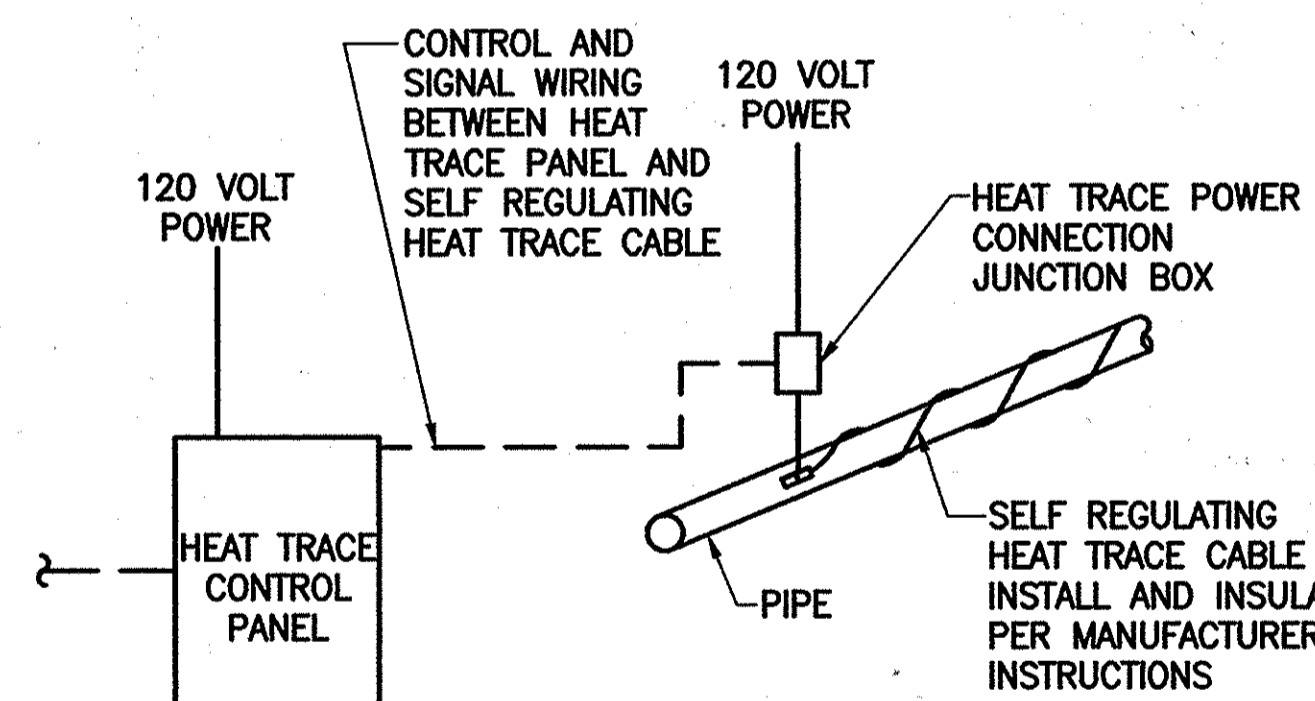
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THE PROPOSED USE OF THE TRAILER IS TO PROVIDE CREW TRAILER WITH LOCKERS, SHOWERS, AND A MEETING SPACE.

ALL ELEVATIONS AND DIMENSIONS TO EXISTING FACILITIES SHOWN HEREIN ARE APPROXIMATE AND MUST BE FIELD VERIFIED.



TYPICAL PIPE TRENCH DETAIL
NOT TO SCALE



HEAT TRACING DETAIL
NOT TO SCALE

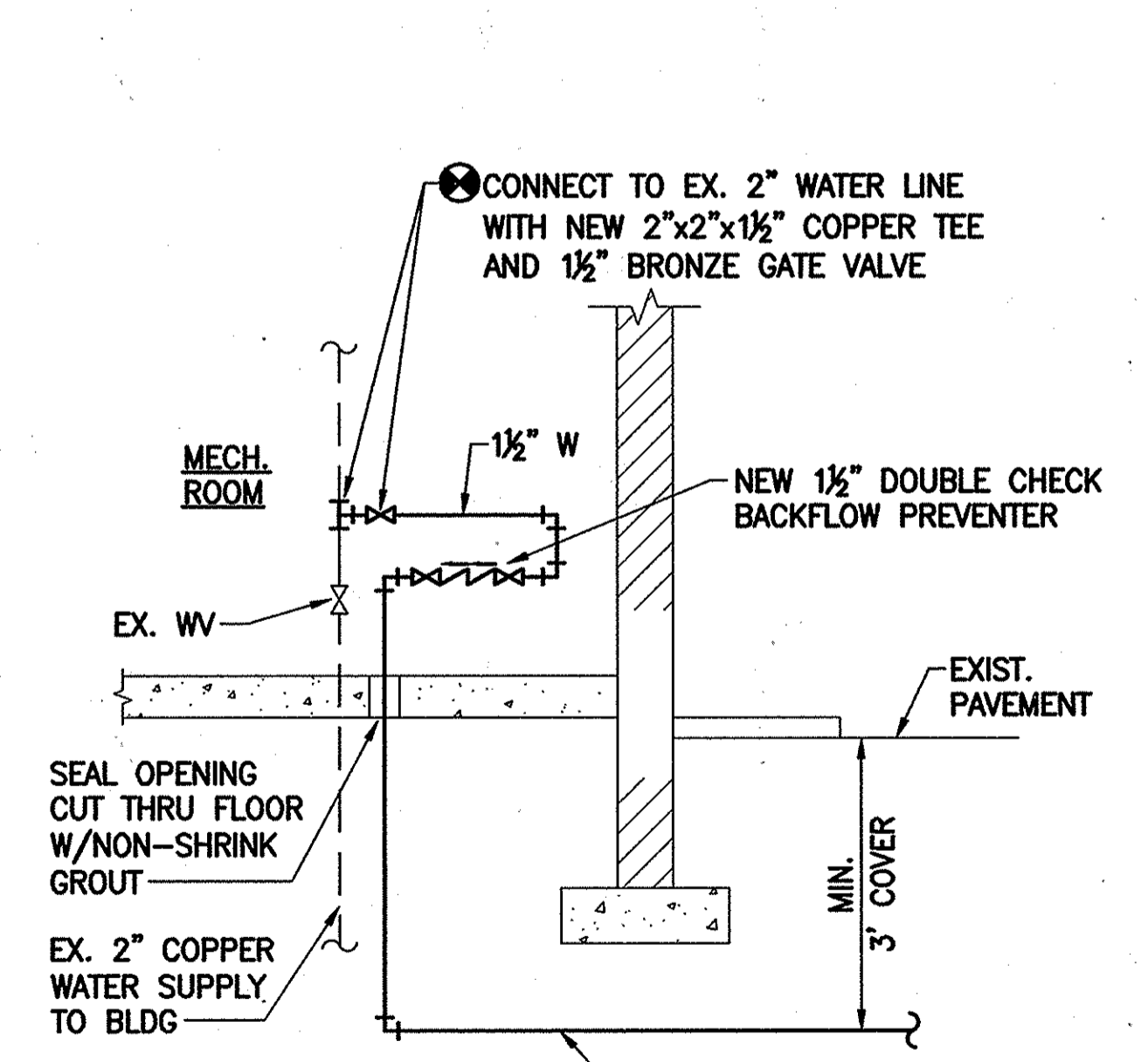
PURPOSE STATEMENT: THE PURPOSE OF THIS REVISED SITE DEVELOPMENT PLAN IS FOR A NEW WATER CONNECTION AND A REPLACEMENT OF THE EXISTING CREW TRAILER.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

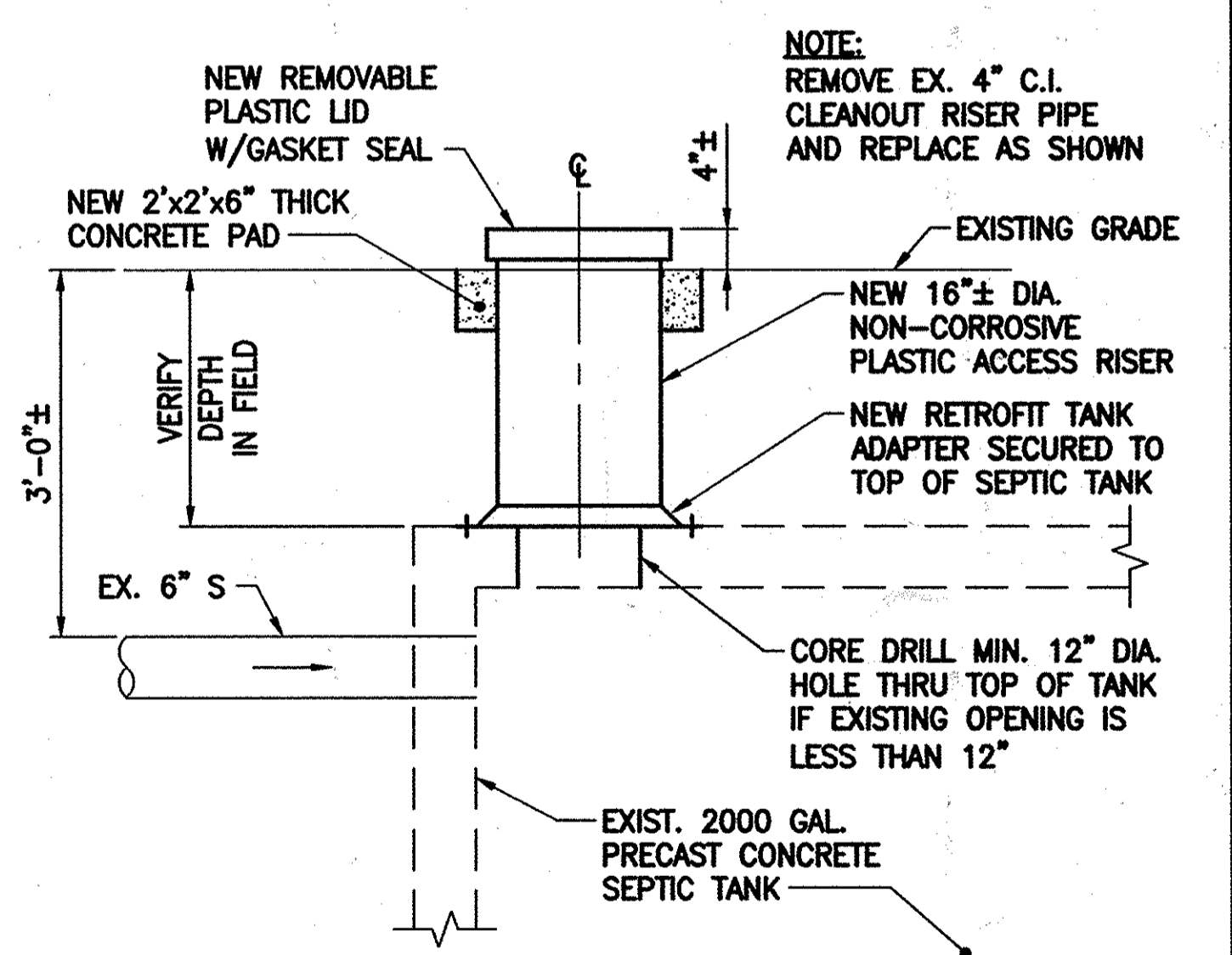
Paul Chombar CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 1-30-13

John S. ... CHIEF, DIVISION OF LAND DEVELOPMENT DATE 1-31-13

Mark ... DIRECTOR DATE 1/31/13



1-1/2" WATER SERVICE CONNECTION DETAIL
NOT TO SCALE



NEW CLEANOUT ACCESS RISER AT EXISTING SEPTIC TANK
NOT TO SCALE

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. 16156 Expiration Date: 8-28-2016

DES: RER	DTM: [1]	SDP 82-087 REDLINE NO. 1 (NEW SHEET)	1/2013
DRN: CDF/JRG		REVISED TO INCORPORATE A NEW CREW TRAILER	
CHK: DTM	DTM: [2]	CHANGED SHEET NO.	6/2015
DATE: 01/23/13	BY: NO.	REVISION	DATE

OWNER:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3430 COURTHOUSE DRIVE
ELLCOTT CITY, MD 21043
PHONE: 410-313-4401

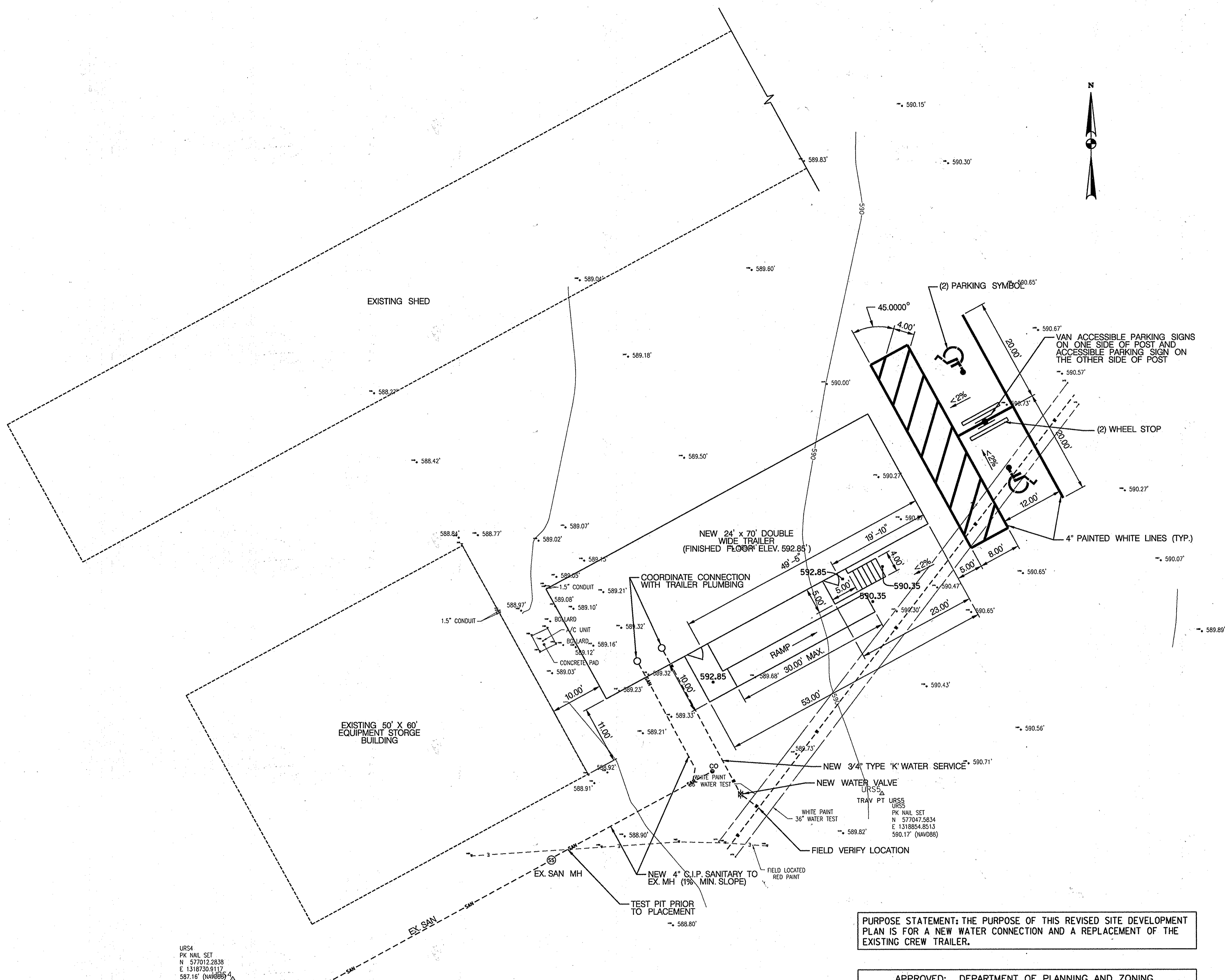
DEVELOPER:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
4301 STATE ROUTE 32
DAYTON, MARYLAND 21036
PHONE: 410-313-7450

HOWARD CO. CENTRAL MAINT. FACILITY
REVISED SITE DEVELOPMENT PLAN

WATER AND SEWER SERVICE TO NEW DOUBLE-WIDE TRAILER

REVISOR'S SITE DEVELOPMENT PLAN

SHEET 2A OF 2



PURPOSE STATEMENT: THE PURPOSE OF THIS REVISED SITE DEVELOPMENT PLAN IS FOR A NEW WATER CONNECTION AND A REPLACEMENT OF THE EXISTING CREW TRAILER.

- GENERAL NOTES:**
- SEE SHEET 7 OF 8 FOR APPLICABLE DETAILS AND NOTES.
 - SEE HOWARD COUNTY DESIGN MANUAL VOL. IV FOR SIGNING AND MARKING DETAILS AND SPECIFICATIONS.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chad Edelman
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 7-9-15

Kristen L. O'Connell
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE 7-21-15

William J. Taylor
 DIRECTOR DATE 7-21-15

PROFESSIONAL CERTIFICATION

"I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156 EXPIRATION DATE: 8/28/2016"

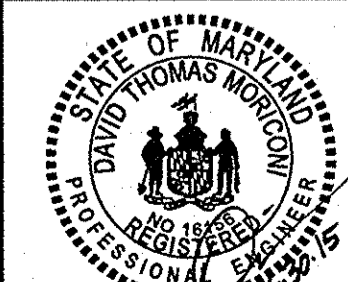
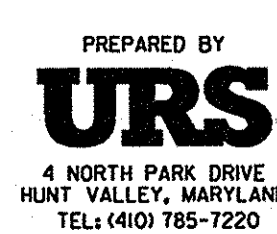
URS4
 PK NAIL SET
 N 577012.2838
 E 1318730.9117
 587.16' (NAVD88)
 TRAV PT URS4

REVISED SITE DEVELOPMENT PLAN

**HOWARD CO. CENTRAL MAINT. FACILITY
 REVISED SITE DEVELOPMENT PLAN**

NEW DOUBLE-WIDE TRAILER

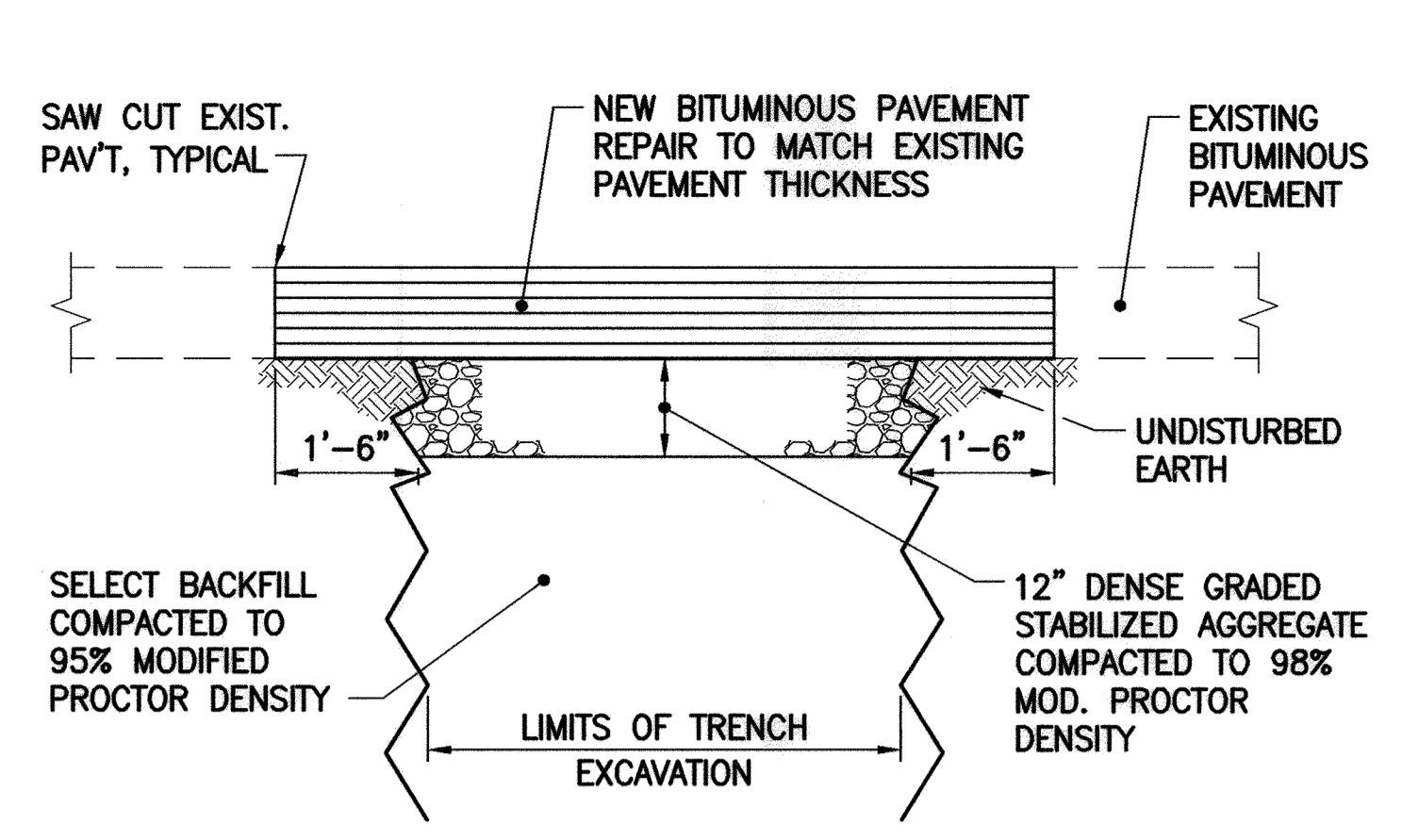
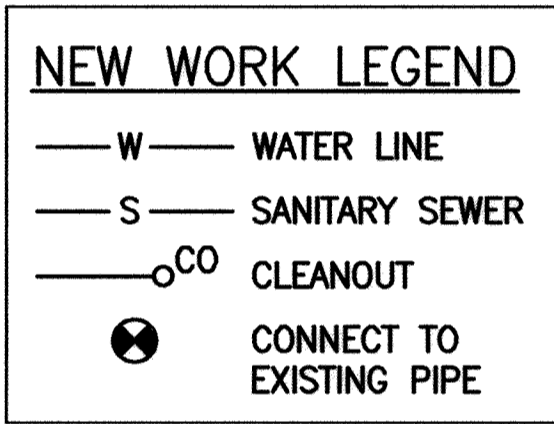
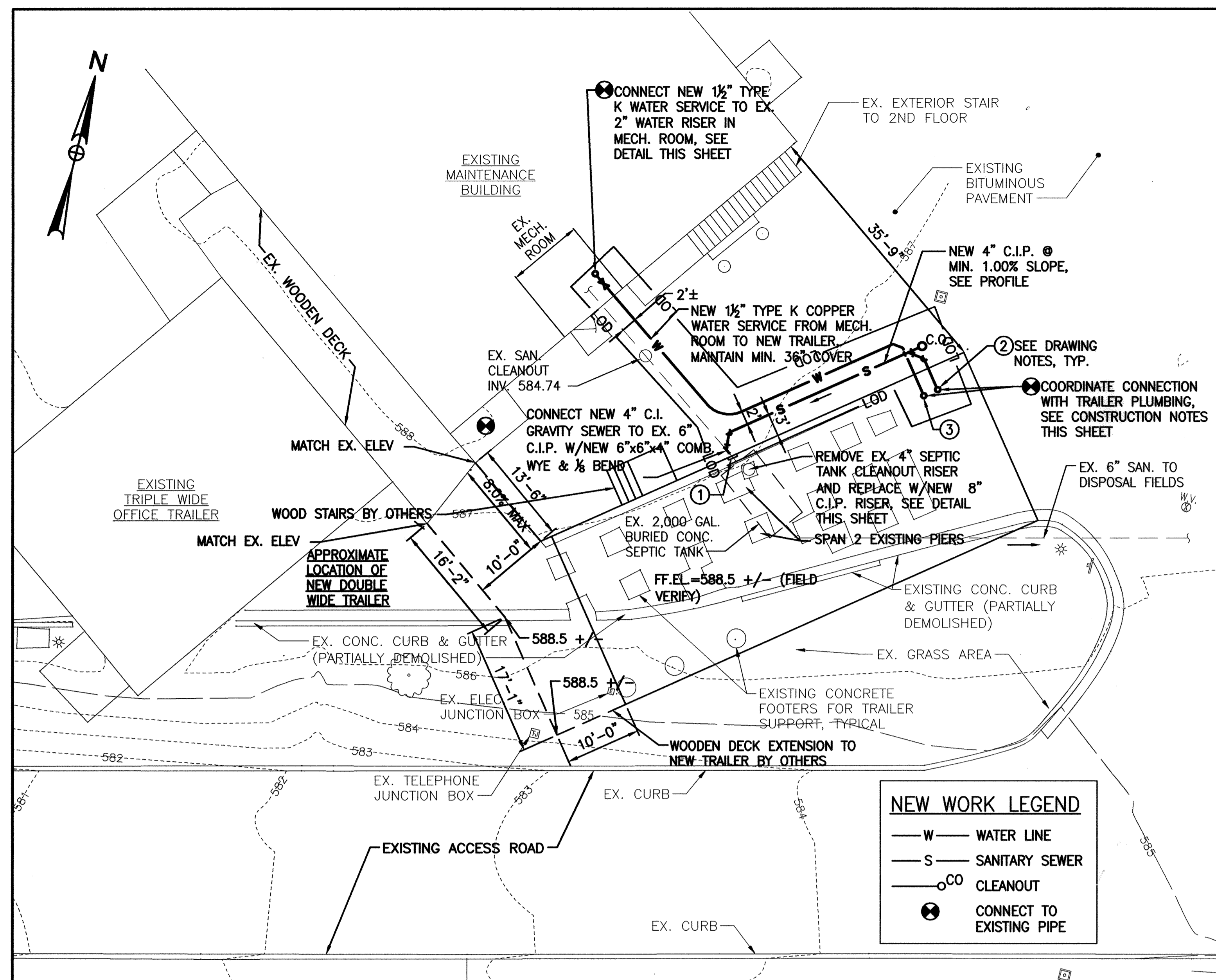
SHEET 8 OF 8



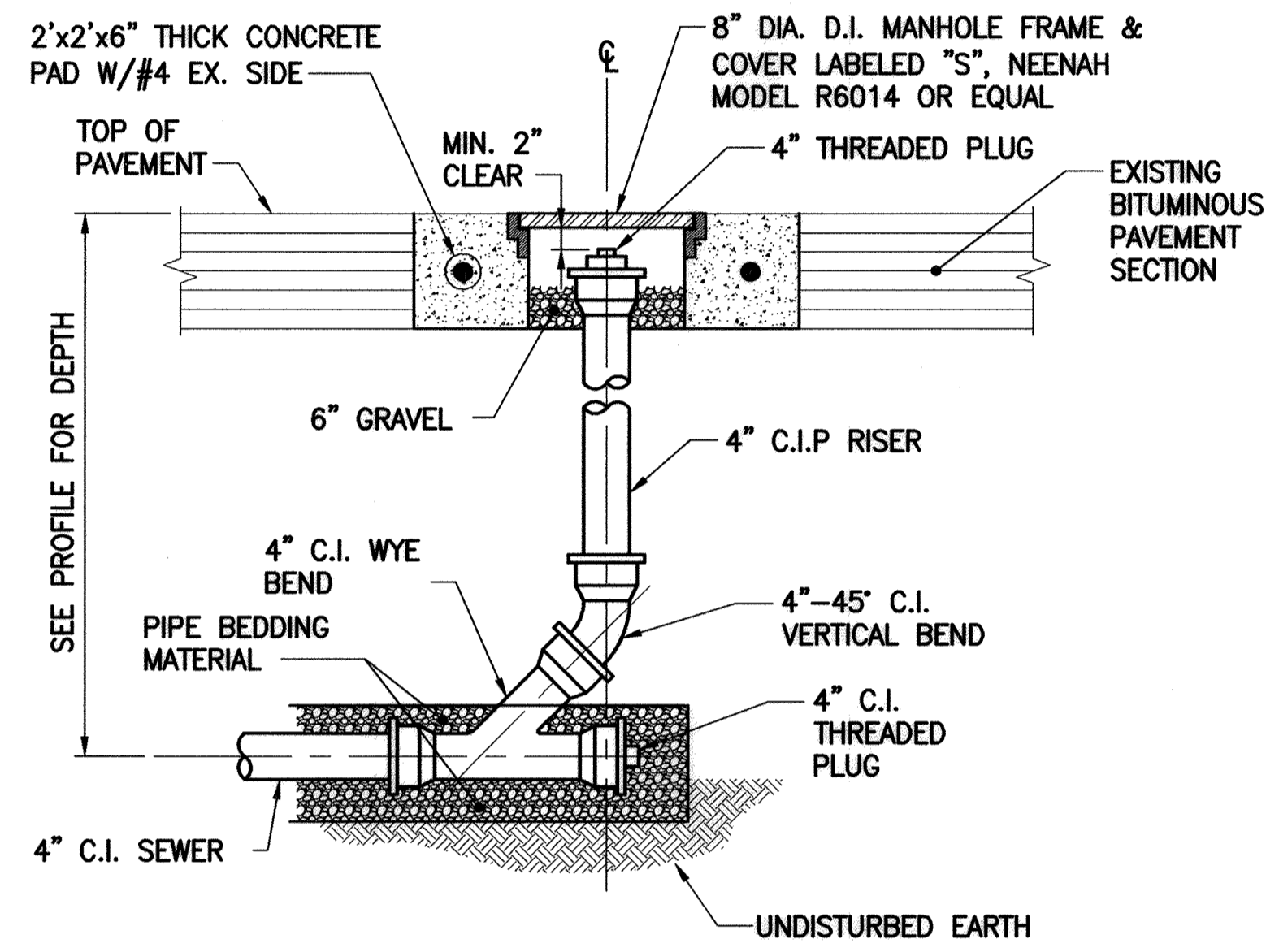
DES: DTM			
DRN: CDF			
CHK: DTM			
DATE: 6/16/15	DTM 1	NEW SHEET	6/16/15
BY: NO.		REVISION	DATE

OWNER:
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 3430 COURTHOUSE DRIVE
 ELLICOTT CITY, MD 21043
 PHONE: 410-313-4401

DEVELOPER:
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 4301 STATE ROUTE 32
 DAYTON, MARYLAND 21036
 PHONE: 410-313-7450



NEW BITUMINOUS PAVEMENT REPAIR DETAIL
NOT TO SCALE



GRAVITY SEWER CLEANOUT DETAIL
NOT TO SCALE

GENERAL CONSTRUCTION NOTES

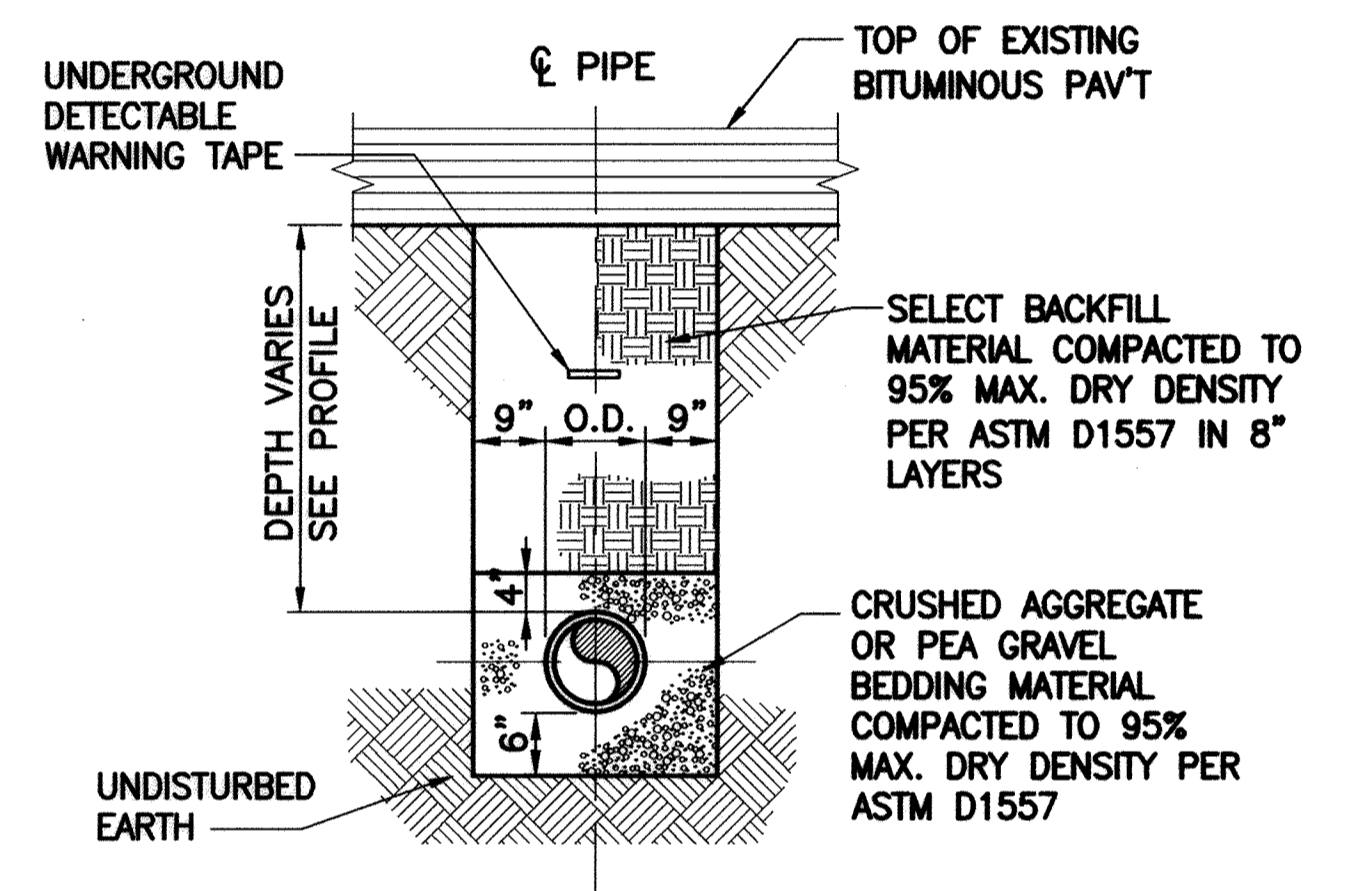
1. THOROUGHLY INSPECT THE SITE PRIOR TO CONSTRUCTION TO VERIFY EXISTING CONDITIONS AND PROVIDE ALL NECESSARY STAKE OUT OF LINE AND GRADE FOR PIPE INSTALLATION.
2. COORDINATE ALL WORK AND PROJECT SCHEDULES WITH THE MAINTENANCE FACILITY SUPERVISOR AND OBTAIN APPROVAL PRIOR TO MAKING CONNECTIONS TO EXISTING WATER AND SEWER PIPING. CONTRACTOR SHALL MAINTAIN UNINTERRUPTED WATER AND SEWER SERVICE TO THE FACILITY EXCEPT WHERE SPECIFICALLY AUTHORIZED BY THE FACILITY SUPERVISOR.
3. ALL EXCAVATION, TRENCHING, SHEETING AND BRACING SHALL BE INSTALLED AS REQUIRED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS INCLUDING O.S.H.A.
4. PROVIDE ADEQUATE BARRICADES AROUND TRENCH HOLE EXCAVATIONS AS SPECIFIED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL.
5. EXISTING PAVEMENT SHALL BE SAW CUT WITH NEAT, CLEAN, PARALLEL, STRAIGHT LINES. GRADES OF NEW PAVEMENT SHALL BLEND SMOOTHLY WITH EXISTING GRADES.

DRAWING NOTES

- ① PROVIDE 30" WIDE REMOVABLE SECTION AT BOTTOM OF NEW TRAILER SKIRT TO ALLOW FOR ACCESS TO SEPTIC TANK CLEANOUT LOCATED UNDER NORTH SIDE OF TRAILER (SEE SITE PLAN THIS SHEET)
- ② CONNECT NEW 4" C.I.P. UNDERGROUND SEWER TO NEW TRAILER C.I. RISER PIPE UNDER TRAILER. ALL EXPOSED SANITARY WASTE & VENT PIPING UNDER TRAILER SHALL BE INSULATED WITH 1" FLEXIBLE ELASTOMERIC WITH ALUMINUM JACKET.
- ③ CONNECT NEW 1/2" UNDERGROUND TYPE K COPPER WATER SERVICE TO NEW 1/2" WATER LINE UNDER TRAILER. ALL EXPOSED WATER SERVICE PIPING UNDER TRAILER SHALL BE HEAT TRACED (5 WATTS/LF) AND INSULATED WITH 1" FLEXIBLE ELASTOMERIC WITH ALUMINUM JACKET.

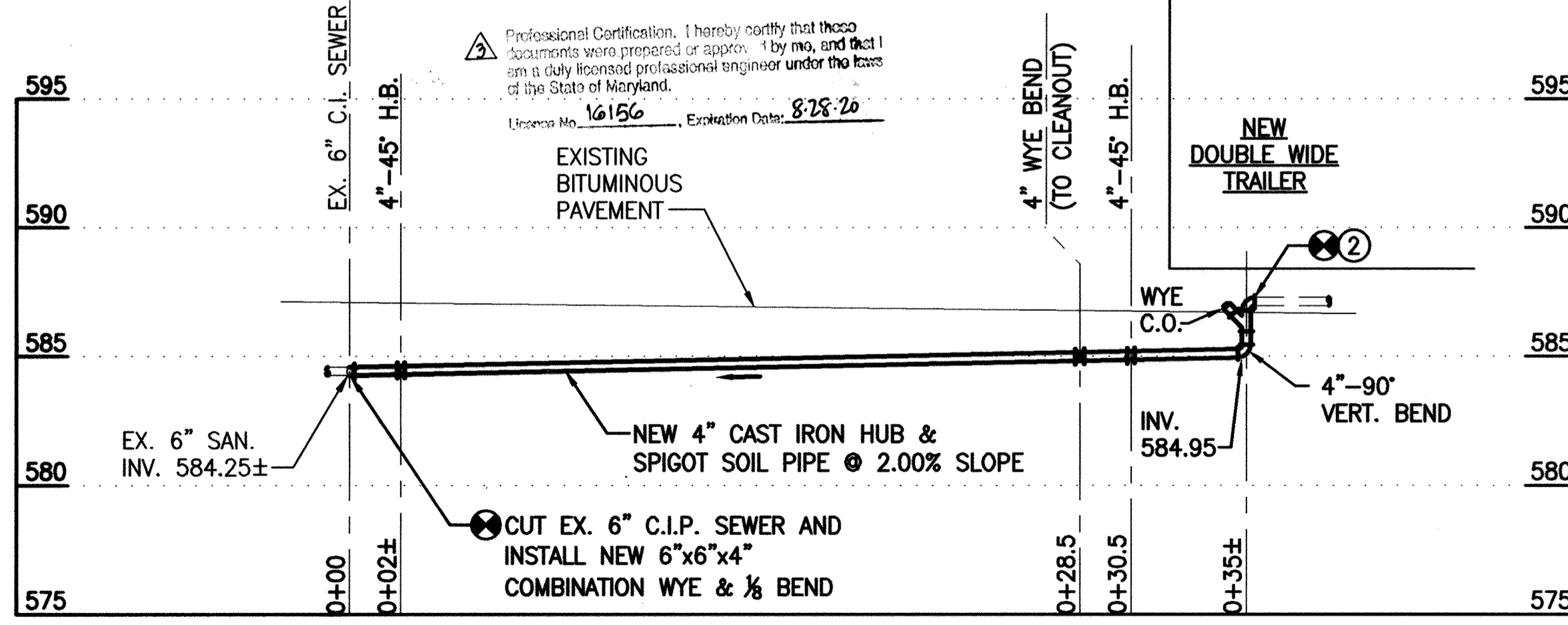
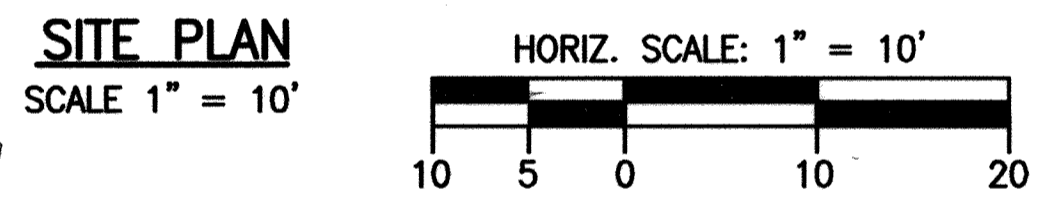
THE PROPOSED USE OF THE TRAILER IS TO PROVIDE CREW TRAILER WITH LOCKERS, SHOWERS, AND A MEETING SPACE.

ALL ELEVATIONS AND DIMENSIONS TO EXISTING FACILITIES SHOWN HEREIN ARE APPROXIMATE AND MUST BE FIELD VERIFIED.

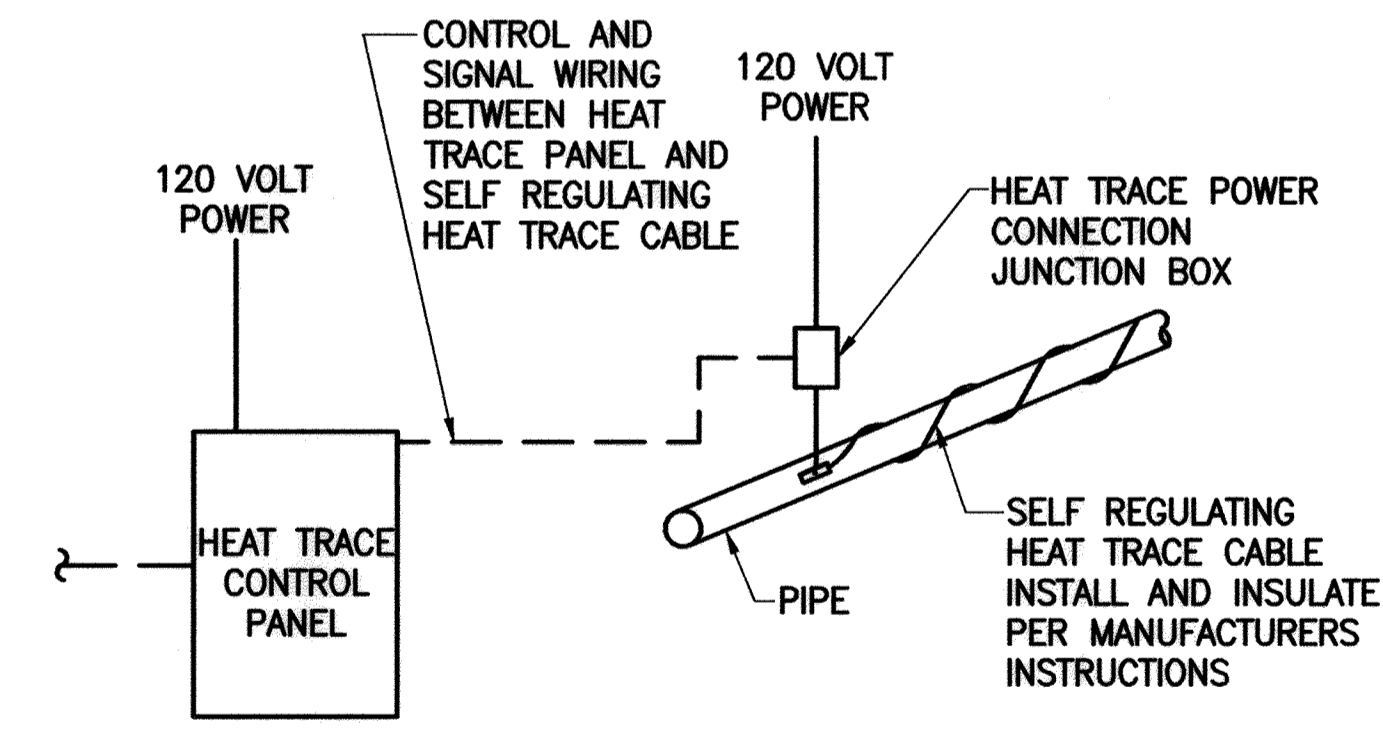


WATER/SEWER TYPICAL PIPE TRENCH DETAIL
NOT TO SCALE

For Revision by TSI, Inc only dated 11/15 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 14230, Expiration Date 12/31/16



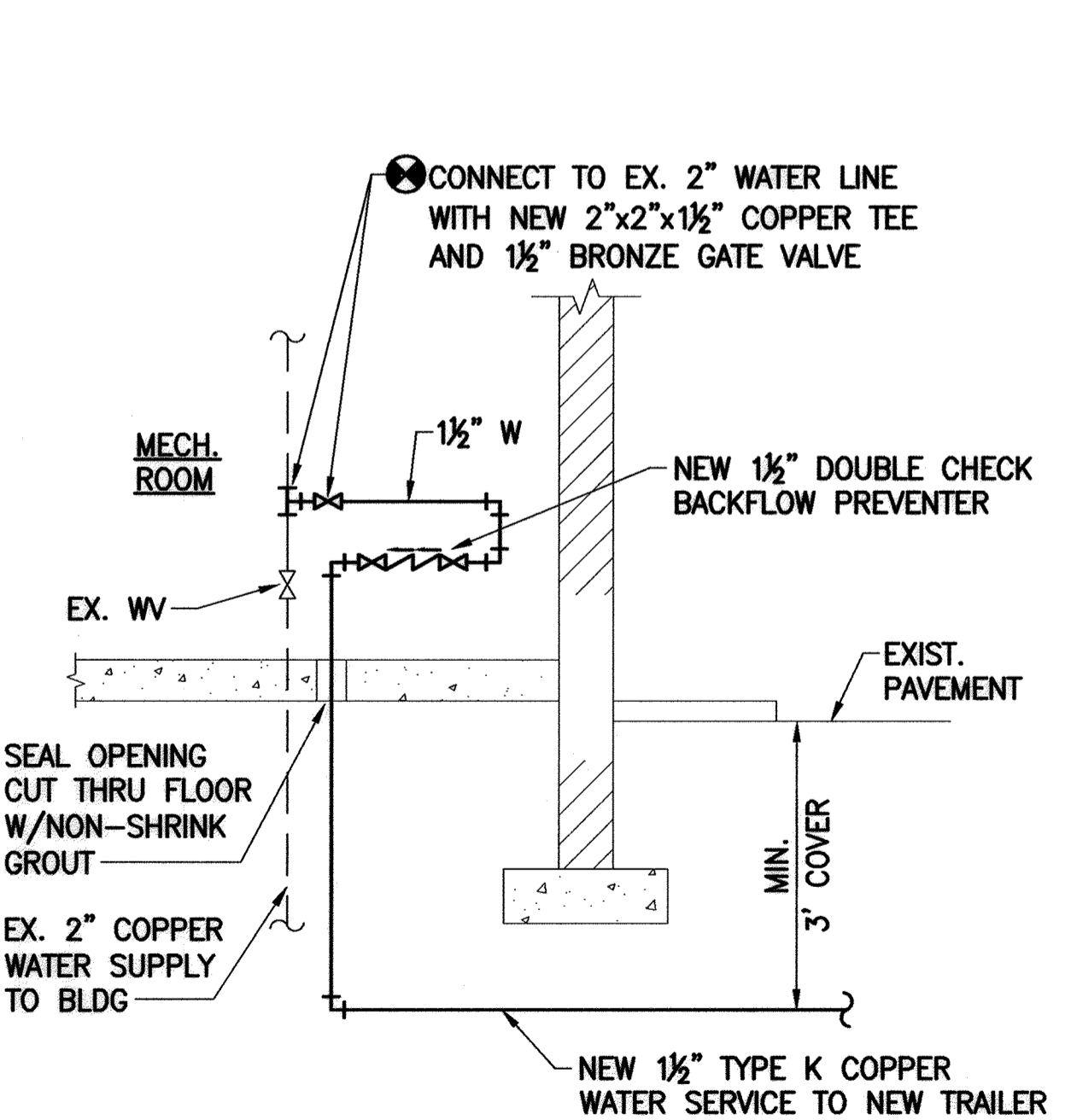
4" C.I. SEWER PROFILE
SCALE 1" = 5' VERT. & HORIZ.



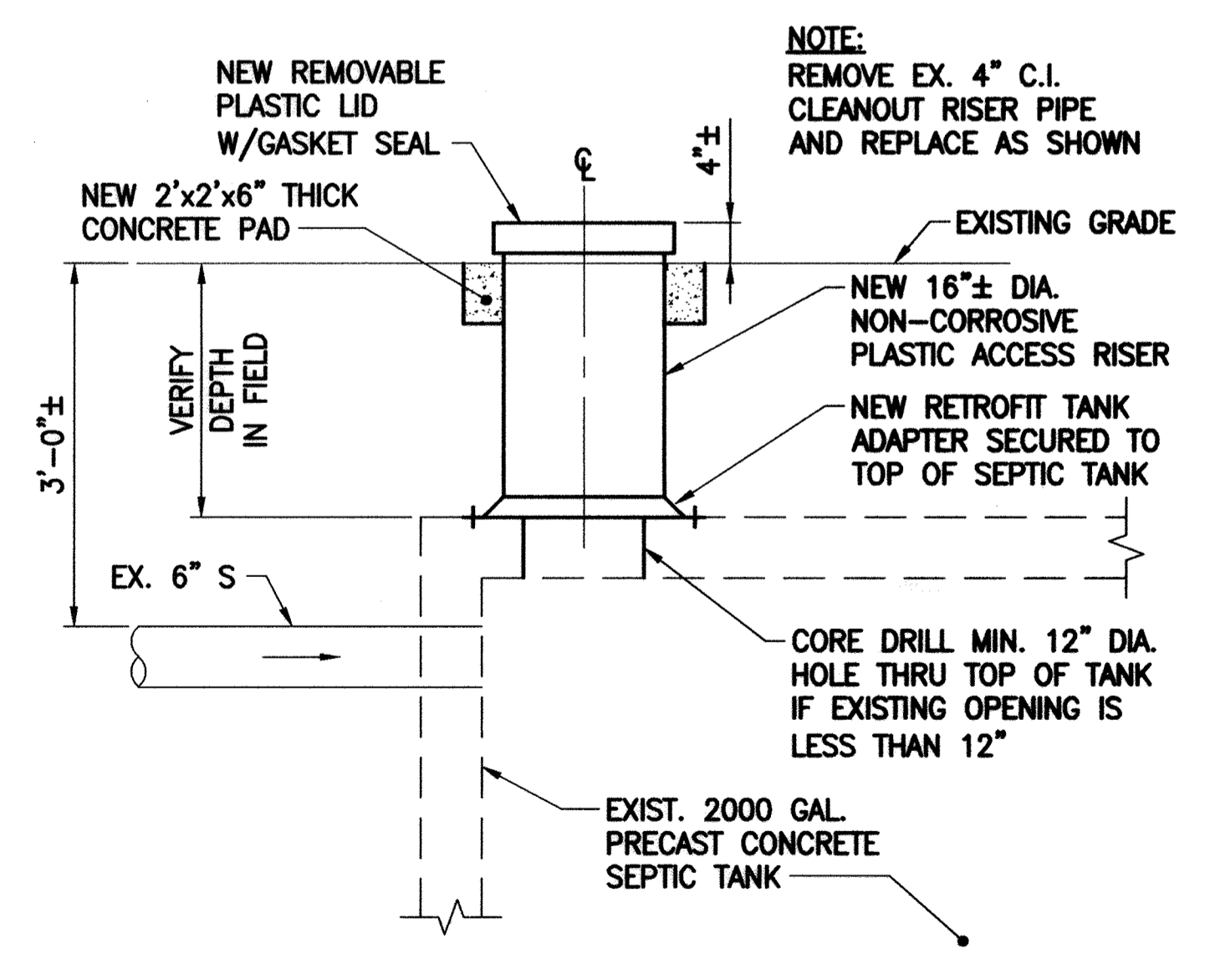
HEAT TRACING DETAIL
NOT TO SCALE

PURPOSE STATEMENT: THE PURPOSE OF THIS REVISED SITE DEVELOPMENT PLAN IS FOR A NEW WATER CONNECTION AND A REPLACEMENT OF THE EXISTING CREW TRAILER.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 1-30-13
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE 1-31-13
 DIRECTOR DATE 1/31/13



1-1/2" WATER SERVICE CONNECTION DETAIL
NOT TO SCALE



NEW CLEANOUT ACCESS RISER AT EXISTING SEPTIC TANK
NOT TO SCALE

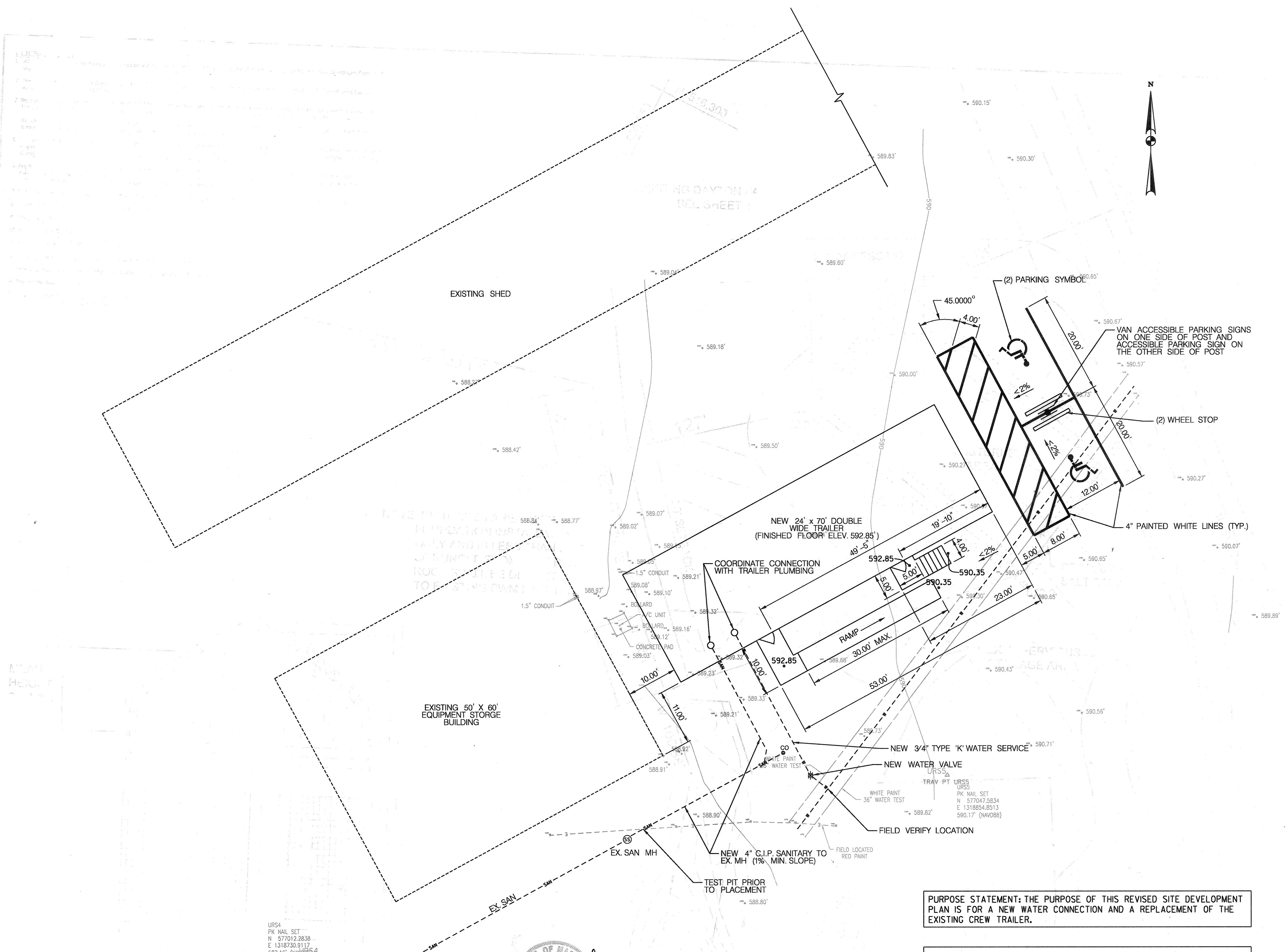
DES: RER	DTM	1	SDP 82-087 REDLINE NO. 1 (NEW SHEET)	1/2013
DRN: CDF/JRG			REVISED TO INCORPORATE A NEW CREW TRAILER	
CHK: DTM	DTM	2	CHANGED SHEET NO.	6/2019
DATE: 01/23/13	REV: JRG		Revised Sheet Numbers to Add Sheet 9 for New 3rd Bay	11/15
BY: NO.	REVISION			DATE

OWNER:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3430 COURTHOUSE DRIVE
ELLCOTT CITY, MD 21043
PHONE: 410-313-4401

DEVELOPER:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
4301 STATE ROUTE 32
DAYTON, MARYLAND 21036
PHONE: 410-313-7450

**HOWARD CO. CENTRAL MAINT. FACILITY
REVISED SITE DEVELOPMENT PLAN**

**WATER AND SEWER SERVICE TO NEW
DOUBLE-WIDE TRAILER**



- GENERAL NOTES:**
- SEE SHEET 7 OF 8 FOR APPLICABLE DETAILS AND NOTES.
 - SEE HOWARD COUNTY DESIGN MANUAL, VOL. IV FOR SIGNING AND MARKING DETAILS AND SPECIFICATIONS.

PURPOSE STATEMENT: THE PURPOSE OF THIS REVISED SITE DEVELOPMENT PLAN IS FOR A NEW WATER CONNECTION AND A REPLACEMENT OF THE EXISTING CREW TRAILER.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chad Edelman
CHIEF, DEVELOPMENT ENGINEERING DIVISION 7-9-15

Christine Jones
CHIEF, DIVISION OF LAND DEVELOPMENT 7-21-15

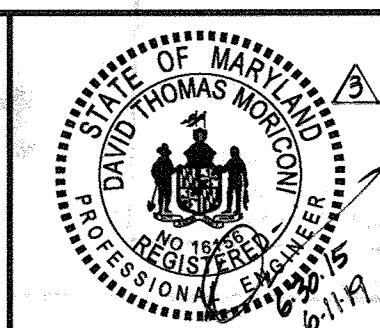
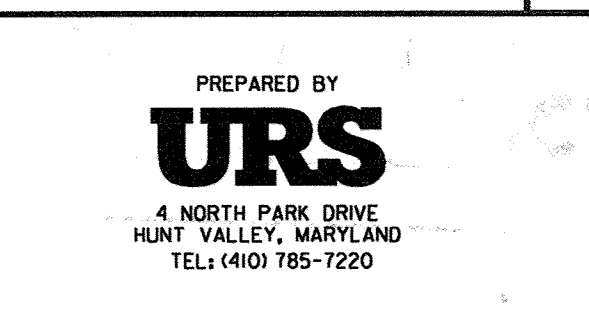
William J. Jones
DIRECTOR 7-21-15

For Revision by TSI, Inc only
Dated 11/15

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland.
License No. 14230 Expiration Date: 12/09/16

PROFESSIONAL CERTIFICATION

"I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 16156
EXPIRATION DATE: 8/28/2016"



DES: DTM			
DRN: CDF	DTM	2	REVISION SHEET DETAIL
CHK: DTM	TSR	2	REVISION SHEET NUMBERS TO ADD SHEET 9 FOR NEW SALT BAR
DATE: 6/16/15	DTM	1	NEW SHEET
BY: NO.			REVISION
			DATE

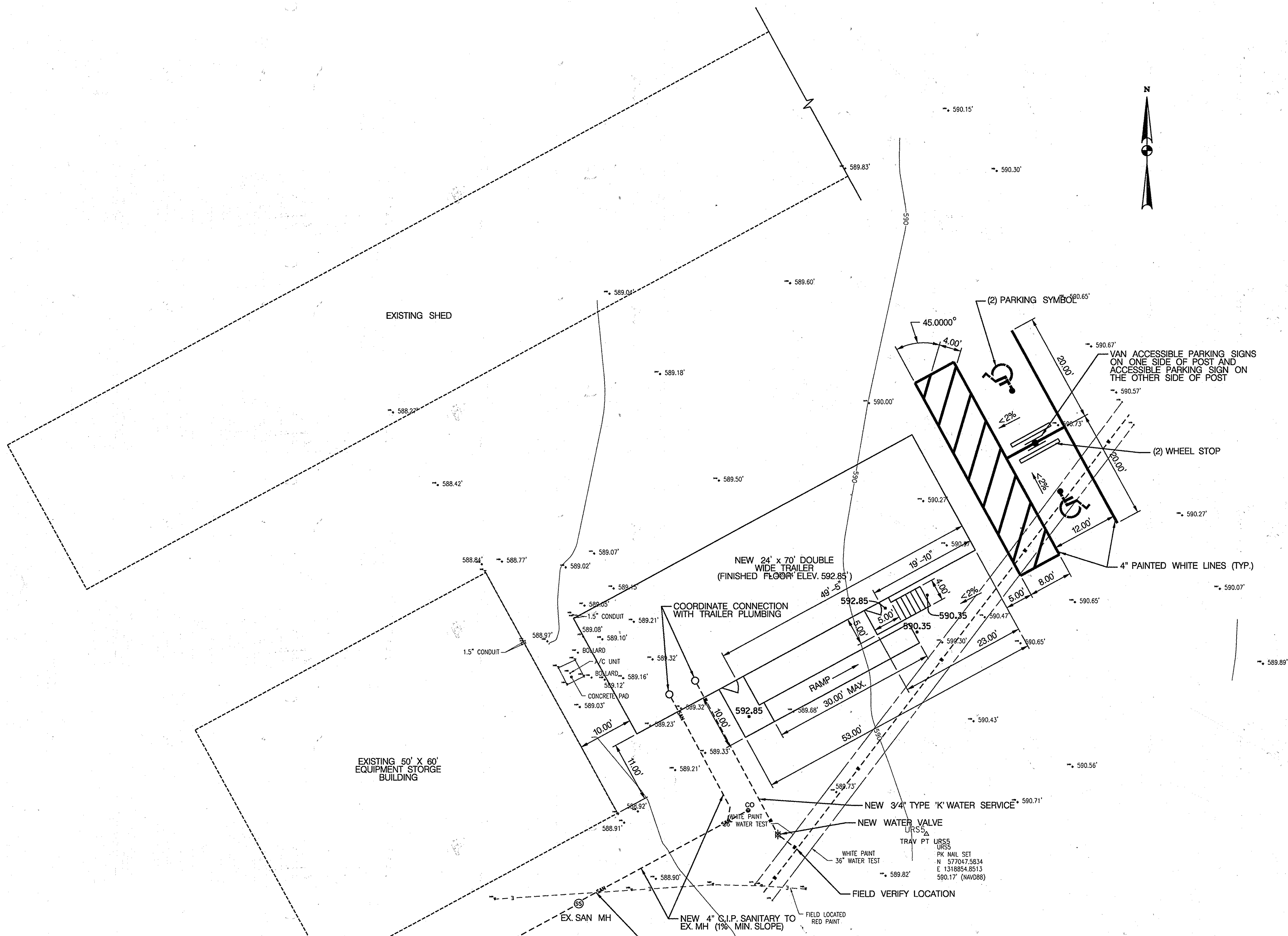
OWNER:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3430 COURTHOUSE DRIVE
ELLCOTT CITY, MD 21043
PHONE: 410-313-4401

DEVELOPER:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
4301 STATE ROUTE 32
DAYTON, MARYLAND 21036
PHONE: 410-313-7450

**HOWARD CO. CENTRAL MAINT. FACILITY
REVISED SITE DEVELOPMENT PLAN**

NEW DOUBLE-WIDE TRAILER

SHEET 8 OF 8



PURPOSE STATEMENT: THE PURPOSE OF THIS REVISED SITE DEVELOPMENT PLAN IS FOR A NEW WATER CONNECTION AND A REPLACEMENT OF THE EXISTING CREW TRAILER.

- GENERAL NOTES:**
- SEE SHEET 7 OF 8 FOR APPLICABLE DETAILS AND NOTES.
 - SEE HOWARD COUNTY DESIGN MANUAL VOL. IV FOR SIGNING AND MARKING DETAILS AND SPECIFICATIONS.

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 16156 EXPIRATION DATE: 9/28/2016



For Revision by TSI, Inc Only Dated 4/15
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland. License No. 14230 Expiration Date: 12/09/16

APPROVED: DEPARTMENT OF PLANNING AND ZONING

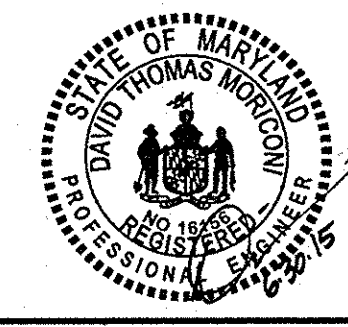
Chris Edelman 7-9-15
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Kevin J. Luma 7-21-15
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

William J. Fyfe 7-21-15
 DIRECTOR DATE

REVISED SITE DEVELOPMENT PLAN

PREPARED BY
URS
 4 NORTH PARK DRIVE
 HUNT VALLEY, MARYLAND
 TEL: (410) 785-7220



DES: DTM			
DRN: CDF			
CHK: DTM	TSI	Revised Sheet Numbers to Add Sheet 9 For New Salt Bats	11/15
DATE: 6/16/15	DTM	1	NEW SHEET 6/16/15
	BY	NO.	REVISION DATE

OWNER:
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 3430 COURTHOUSE DRIVE
 ELLICOTT CITY, MD 21043
 PHONE: 410-313-4401

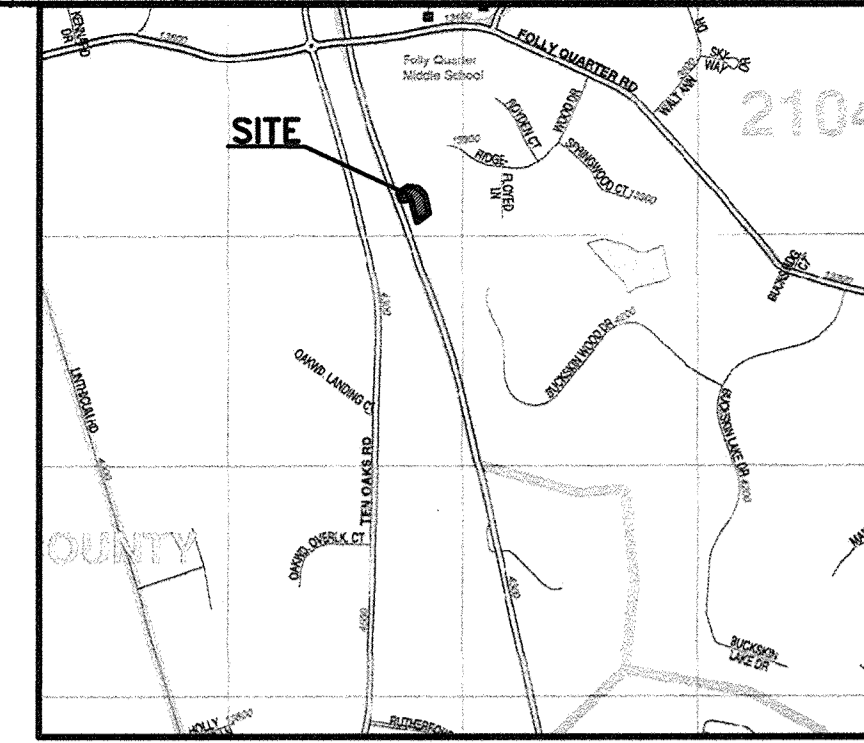
DEVELOPER:
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 4301 STATE ROUTE 32
 DAYTON, MARYLAND 21036
 PHONE: 410-313-7450

HOWARD CO. CENTRAL MAINT. FACILITY
REVISED SITE DEVELOPMENT PLAN

NEW DOUBLE-WIDE TRAILER

SHEET 8 OF 8.9

- GENERAL NOTES**
- All construction shall be performed in accordance with the latest standards and specifications of Howard County, plus MSHA standards and specifications if applicable or as specified.
 - The Contractor shall notify the Department of Public Works / Bureau of Engineering/ Construction Inspection Division at (410) 313-1880 at least five (5) working days prior to the start of work.
 - The contractor shall notify "Miss Utility" at 1-800-251-TTTT at least 48 hours prior to any excavation work being done, and shall notify the Department of Public Works/Bureau of Engineering/Construction Inspection Division at (410) 313-1880 at least five (5) working days prior to the start of work.
 - The contractor shall test pits existing utilities at least five (5) days before starting work shown on these drawings to verify their location and elevation. The contractor shall notify the engineer immediately if location of utilities is other than shown.
 - Approximate locations of existing utilities are based solely on available records and field surveys. Contractor shall verify the locations of any utilities which may be impacted by the work. The contractor shall take all necessary precautions to protect the existing utilities and maintain uninterrupted service. Any damage incurred due to contractor's operation shall be repaired immediately at the contractor's expense.
 - Any damage caused by the Contractor, any subcontractors, or any vendor to the existing public right-of-way, or any existing paving, curb & gutter, utilities, sidewalks, trees, shrubs, lawns, or any other existing conditions (not indicated to be demolished), or any newly installed proposed improvement, shall be repaired or replaced, to owner's satisfaction, at Contractor's sole cost and expense.
 - All fill areas shall be compacted to a minimum of 95% of the maximum dry density as determined and verified in accordance with AASHTO T-99.
 - The project site is located outside the Metropolitan District.
 - Zoning: RR-DEO
 - Area of Site: 4.495 Ac.
 - Area of this Plan: 4,900 SF. (Limit of Disturbance)
 - This project is exempt from AFPO because it does not generate any new traffic / trips.
 - Since disturbance is less than 5000 SF, the standard sediment control plan shall apply.
 - Topography shown is from Howard County.
 - Deed Reference: L 1075 F. 210 dated 10/26/81
L 182 F. 616 dated 2/2/85



Vicinity Map - Scale: 1" = 2000'
ADC Map 24-D1
ADC The Map People - Permitted Use # 20612205

N. 516,300
E. 806,650

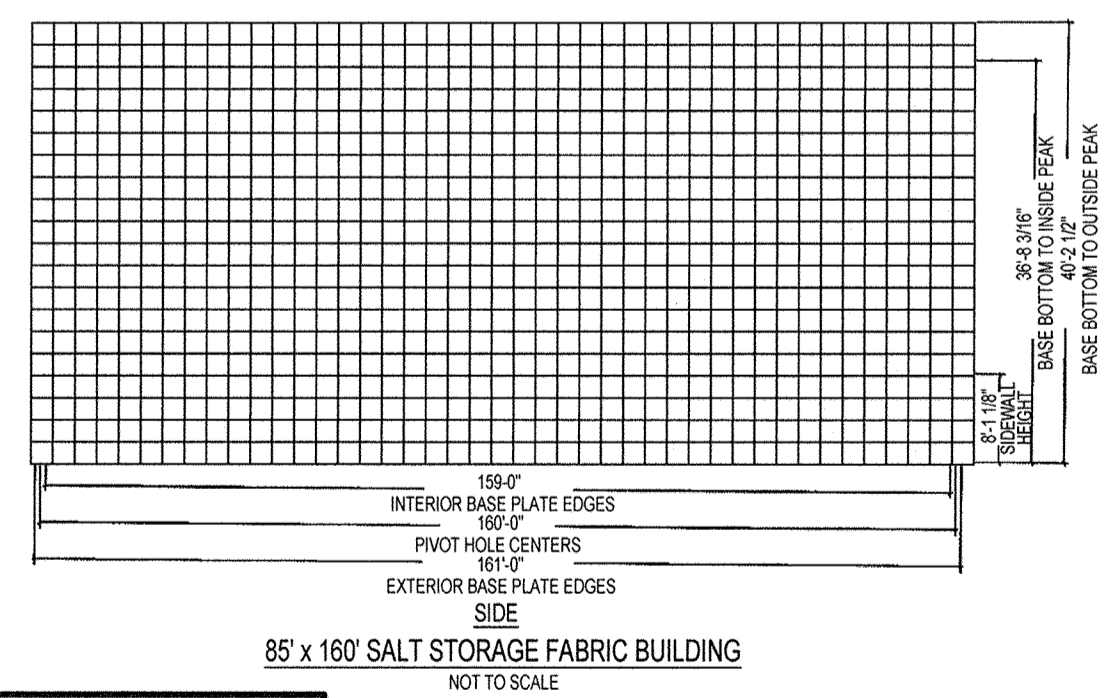
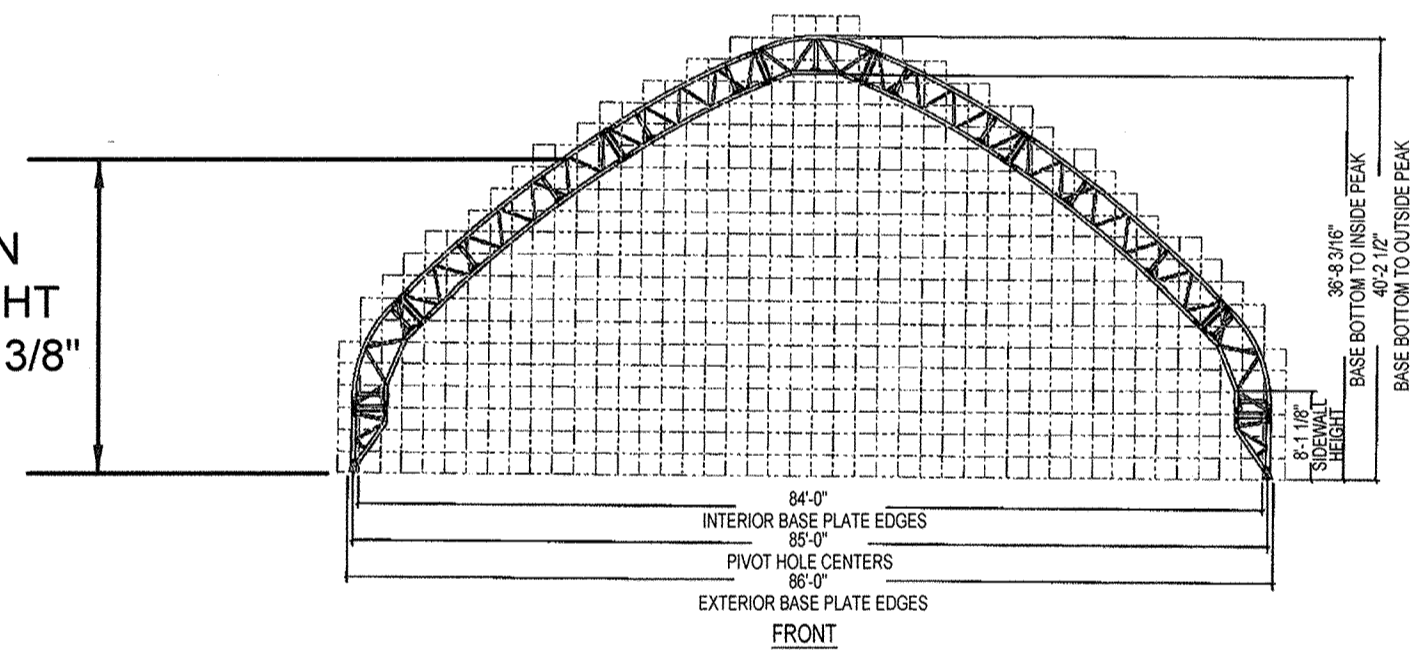
EXISTING DAYTON FACILITY
SEE SHEET 1.

S 76°06'50" W 739.12'

N 38°54'05" W 139.62'
41.1'

NOTE: DISTURBED AREA IS FOR FOUNDATION INSTALLATION ONLY AND IS LESS THAN 5000 SF RUNOFF FROM SALT BARN ROOF SHALL BE DIRECTED TO EXISTING SWM FACILITY.

MEAN HEIGHT
32'-1 3/8"



85' x 160' SALT STORAGE FABRIC BUILDING
NOT TO SCALE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

John J. Chubb 12-7-15
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Kent R. Rowland 12-9-15
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

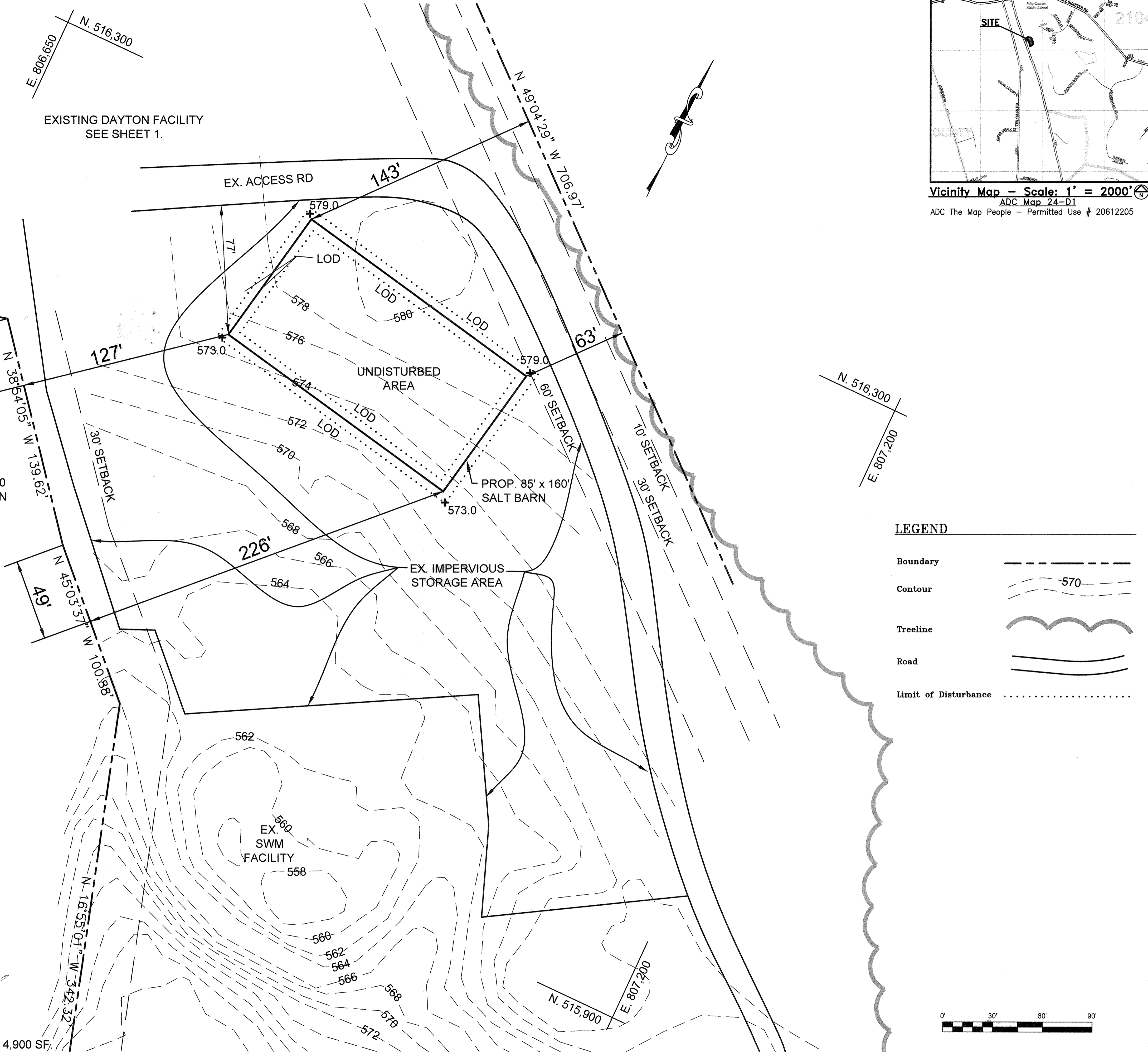
Walter J. Jaffee 12-9-15
DIRECTOR DATE

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 16156, Expiration Date: 8-28-20



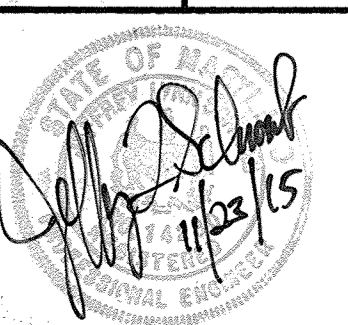
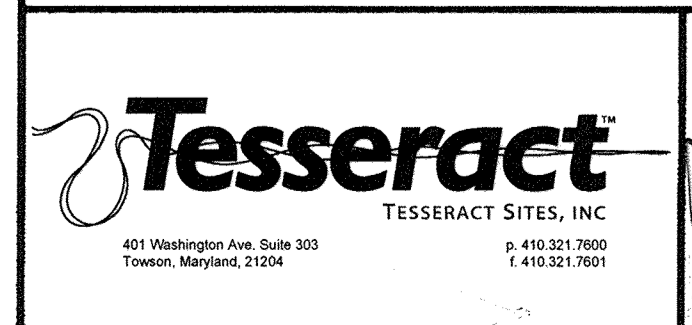
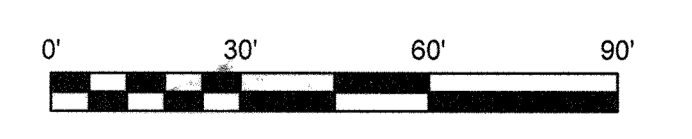
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 14230, Expiration Date: 12/09/16.

LIMIT OF DISTURBANCE: 4,900 SF.



LEGEND

Boundary	--- ---
Contour	- - - - 570
Treeline	~~~~~
Road	====
Limit of Disturbance



DES:	TSI	1	ADDED SHEET 9 FOR NEW SALT BARN, RENUMBERED SHEETS	11/15
DRN:	DTM	2	REVISED SHEET TITLE	JAN 2017
CHK:				
DATE:	BY	NO.	REVISION	DATE

OWNER:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
3430 COURTHOUSE DRIVE
ELLICOTT CITY, MD 21043
PHONE: 410-313-4401

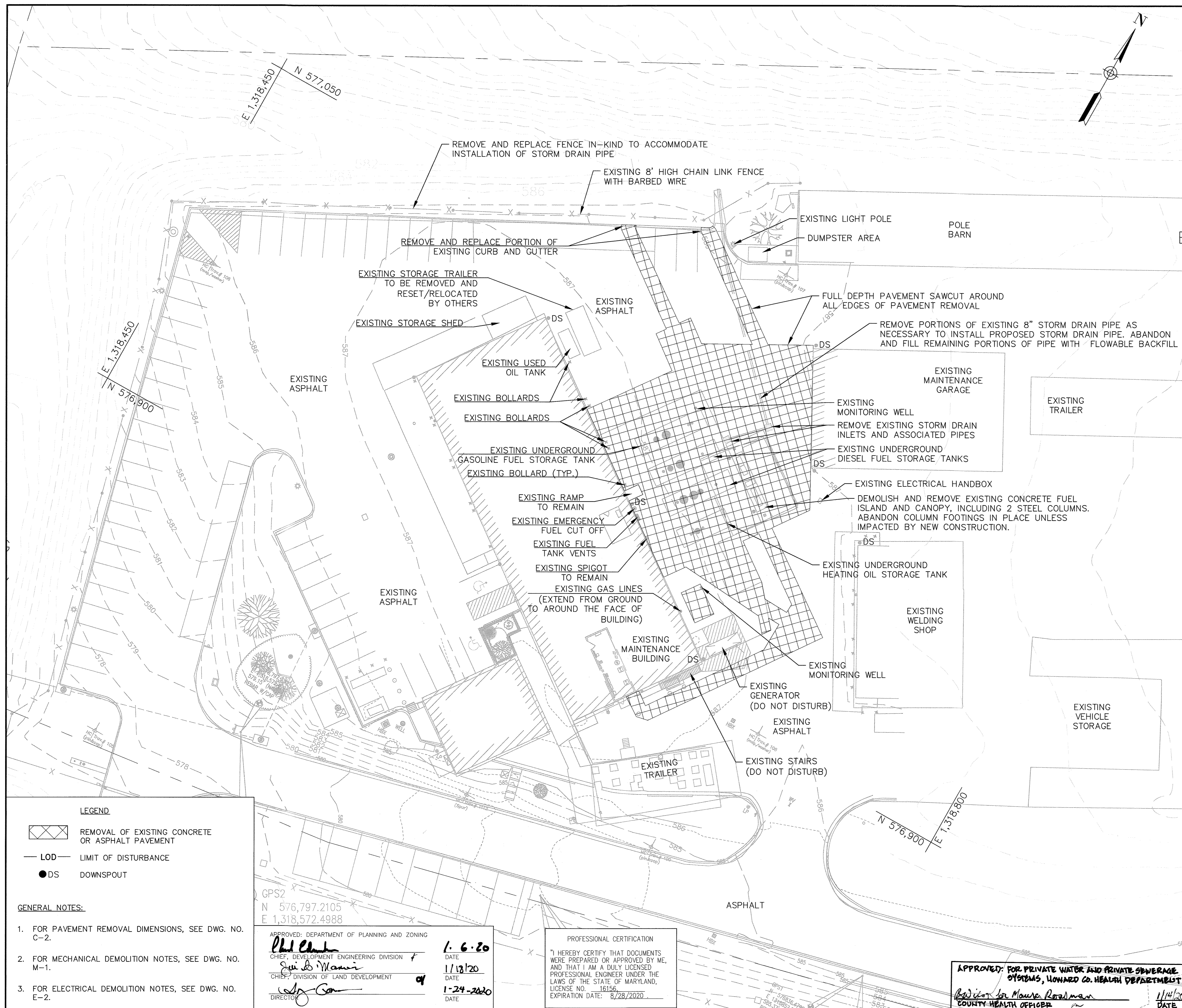
DEVELOPER:
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
4301 STATE ROUTE 32
DAYTON, MARYLAND 21036
PHONE: 410-313-7450

**HOWARD CO. CENTRAL MAINT. FACILITY
REVISED SITE DEVELOPMENT PLAN**

PROPOSED SALT BARN

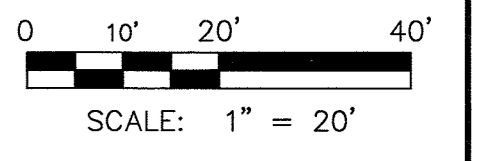
SHEET 9 OF 9

SDP-82-087



- GENERAL DEMOLITION NOTES:**
- THE CONTRACTOR SHALL MAINTAIN ACCESS FOR COUNTY PERSONNEL TO THE MAINTENANCE FACILITY AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE TEMPORARY CLOSURE/COVERINGS SUCH AS STEEL PLATES TO FACILITATE ACCESS TO THE MAINTENANCE FACILITY, AS NEEDED.
 - PRIOR TO THE DEMOLITION WORK, THE CONTRACTOR SHALL PERFORM A DETAILED INSPECTION OF THE EXISTING SITE WORK AREA. THE INSPECTION SHALL BE PERFORMED IN THE PRESENCE OF THE COUNTY INSPECTOR. THE FINDINGS OF THE INSPECTION SHALL BE THE BASIS OF "EXISTING" SITE CONDITIONS. DAMAGE AS A RESULT OF REMOVAL WORK SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE COUNTY, AND TO THE SATISFACTION OF THE COUNTY SITE SUPERINTENDENT.
 - EXISTING UNDERGROUND STORAGE TANKS (UST), DISPENSERS, AND ASSOCIATED PIPING WILL BE REMOVED PRIOR TO THE CONSTRUCTION OF THE PROPOSED UNDERGROUND STORAGE TANKS AND OIL/WATER SEPARATOR.
 - LOCATION OF EXISTING UTILITIES AS SHOWN ON THIS PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY LOCATIONS OF THE UTILITIES USING A PRIVATE UTILITY LOCATOR. CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO AVOID DAMAGING ANY UTILITIES. ANY UTILITIES DAMAGED AS A RESULT OF CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S SOLE EXPENSE.
 - DEMOLITION PROCEDURES SHALL PROVIDE FOR SAFE CONDUCT OF THE WORK AND SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. WORK WHICH IS SPECIFIED TO REMAIN SHALL BE UNDISTURBED AND PROTECTED FROM DAMAGE BY ALL DEMOLITION AND NEW WORK ACTIVITIES.
 - DEMOLITION WORK SHALL BE PERFORMED IN A MANNER THAT DOES NOT ENDANGER EXISTING STRUCTURES. IF A CONCERN WITH STRUCTURAL INTEGRITY ARISES, THE CONTRACTOR SHALL NOTIFY THE COUNTY IMMEDIATELY BEFORE PROCEEDING FURTHER.
 - DEMOLITION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACCEPTED INDUSTRY STANDARDS. EXPLOSIVES AND BLASTING ARE NOT PERMITTED IN PERFORMANCE OF THE DEMOLITION WORK.
 - THE CONTRACTOR SHALL SAWCUT FULL DEPTH OF THE EXISTING CONCRETE AND/OR ASPHALT PAVEMENT PRIOR TO EXCAVATION. DAMAGE TO THE EXISTING PAVEMENT TO REMAIN DUE TO CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR.
 - THE CONTRACTOR SHALL KEEP TRENCHES AND EXCAVATION DEWATERED. EXCAVATED MATERIAL RENDERED UNSUITABLE FOR BACKFILL OR REUSE DUE TO LACK OF DEWATERING OPERATIONS SHALL BE REPLACED WITH SELECT BACKFILL MATERIALS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE COUNTY.
 - EXCAVATION ACTIVITIES ARE LIMITED TO THE LIMIT OF DISTURBANCE (LOD) AS SHOWN ON THIS DEMOLITION PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING, PROVIDING, MAINTAINING, AND SUBSEQUENTLY REMOVING EXCAVATION SUPPORT SYSTEMS TO RETAIN EARTH EXCAVATIONS IN A MANNER THAT SHALL PERMIT THE SAFE AND/OR EXPEDITIOUS CONSTRUCTION OF THE PERMANENT STRUCTURES AND UTILITIES TO PREVENT LATERAL DEPLOYMENT AND/OR SETTLEMENT OF THE ADJACENT BUILDINGS, STRUCTURES, ROADS, AND UTILITIES. THE CONTRACTOR SHALL SHORE, SUPPORT, AND PROTECT STRUCTURES, UTILITIES, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHING OUT, AND OTHER HAZARDS THAT COULD DEVELOP DURING EXCAVATION OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE EXCAVATION SUPPORT SYSTEM FOR THE FULL TERM OF THE CONTRACT. THE COSTS OF THESE SHALL BE INCIDENTAL TO THE COSTS FOR APPLICABLE EXCAVATION COSTS.
 - THE CONTRACTOR SHALL MINIMIZE AIRBORNE DUST LEVELS DURING DEMOLITION AND ADHERE TO ALL RELEVANT OSHA PERMISSIBLE EXPOSURE LIMITS (PELS) AND OTHER REQUIREMENTS FOR AIRBORNE CONTAMINANTS, INCLUDING RESPIRABLE DUST. ADEQUATE FILTRATION AND/OR VENTILATION SHALL BE PROVIDED TO MAINTAIN A HEALTHY AND OSHA COMPLIANT ENVIRONMENT.
 - THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE GENERAL PUBLIC AND ON-SITE PERSONNEL IN ACCORDANCE WITH OSHA REQUIREMENTS AND ALL GOVERNING CODES/LAWS.
 - THE CONTRACTOR SHALL MAINTAIN COLLECTION AND DISPOSAL OF DRAINAGE TO INLETS AND ROOF DRAINS AT ALL TIMES. CONTRACTOR MAY ELECT TO CAPTURE DRAINAGE IN A TEMPORARY STORAGE TANK AND HAUL CONTENTS OFFSITE FOR TREATMENT AND DISPOSAL IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS OR CAPTURE DRAINAGE IN A TEMPORARY OIL WATER SEPARATOR AND DISCHARGE TREATED CONTENTS TO THE ONSITE SANITARY SEWER. THE CAPTURE AND DISPOSAL OF CAPTURED RUNOFF OR OFFSITE TREATMENT SHALL BE AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL SEGREGATE, STORE, MANAGE, AND PROPERLY DISPOSE OF ANY ACCUMULATED SOILS, MATERIALS, AND/OR RESIDUES (HAZARDOUS OR NON-HAZARDOUS) FOUND DURING THE EXCAVATION OF THE EXISTING TRENCH DRAINS, PER ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
 - THE CONTRACTOR SHALL CONDUCT PRECISION TESTING OF PROPOSED FUEL AND VAPOR LINES PRIOR TO RESTORING SURFACE TO FINAL CONDITIONS AND AFTER CONCRETE PLACEMENT. PRECISION TESTING SHALL BE CONDUCTED BY A TESTING COMPANY APPROVED BY THE ENGINEER.
 - THE CONTRACTOR IS RESPONSIBLE FOR FILL AND RESTORATION OF SURFACES, GRADING, AND SEEDING.
 - THE CONTRACTOR IS RESPONSIBLE FOR SECURITY OF HIS EQUIPMENT.
 - LIMITS OF PAVEMENT REMOVAL ARE APPROXIMATE. FIELD ADJUSTMENTS MAY BE REQUESTED BY THE COUNTY INSPECTOR.
 - EXISTING BOLLARDS ARE TO REMAIN UNLESS DESIGNATED FOR REMOVAL.

- EROSION AND SEDIMENT CONTROL NOTES:**
- THE LIMIT OF DISTURBANCE (LOD) IS 10,840 SF. ANY DISTURBANCE OUTSIDE THE LOD MUST BE APPROVED BY THE COUNTY INSPECTOR.
 - DISTURBED AREAS MUST BE STABILIZED AT THE END OF EACH WORK DAY.
 - EXCAVATED MATERIAL MUST BE REMOVED OFFSITE. STOCKPILES AND STAGING AREAS MUST BE APPROVED BY THE COUNTY INSPECTOR.
- △ PURPOSE: THE PURPOSE OF THIS REDLINE IS TO REMOVE AND REPLACE THE EXISTING UNDERGROUND FUEL STORAGE TANKS (UST), TO REMOVE AND REPLACE THE FUEL ISLAND/CANOPY AND TO ADD A NEW OIL WATER SEPARATOR.



LEGEND

- REMOVAL OF EXISTING CONCRETE OR ASPHALT PAVEMENT
- LOD LIMIT OF DISTURBANCE
- DS DOWNSPOUT

GENERAL NOTES:

- FOR PAVEMENT REMOVAL DIMENSIONS, SEE DWG. NO. C-2.
- FOR MECHANICAL DEMOLITION NOTES, SEE DWG. NO. M-1.
- FOR ELECTRICAL DEMOLITION NOTES, SEE DWG. NO. E-2.

GPS2
N 576,797.2105
E 1,318,572.4988

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Phil Clark
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 1/6/20

Jim S. Manner
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 1/13/20

Wally Con
DIRECTOR
DATE: 1-24-2020

PROFESSIONAL CERTIFICATION

"I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16156, EXPIRATION DATE: 8/28/2020"

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD CO. HEALTH DEPARTMENT

Richard M. Roszman
COUNTY HEALTH OFFICER
DATE: 1/14/2020

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James H. Disler
DIRECTOR OF PUBLIC WORKS
DATE: 8/23/19

Steve Wilkerson
CHIEF, DESIGN & CONSTRUCTION, BUREAU OF FACILITIES
DATE: 08-14-2019

David Jahn
CHIEF, OPERATIONS & MAINTENANCE, BUREAU OF FACILITIES
DATE: 08-12-2019



DES: NJF			
DRN: NJF			
CHK: DTM			
DATE: 08/2019	DTM	NEW SHEET ADDED	08/2019
BY NO.		REVISION	DATE

EXISTING CONDITIONS & SITE DEMOLITION PLAN

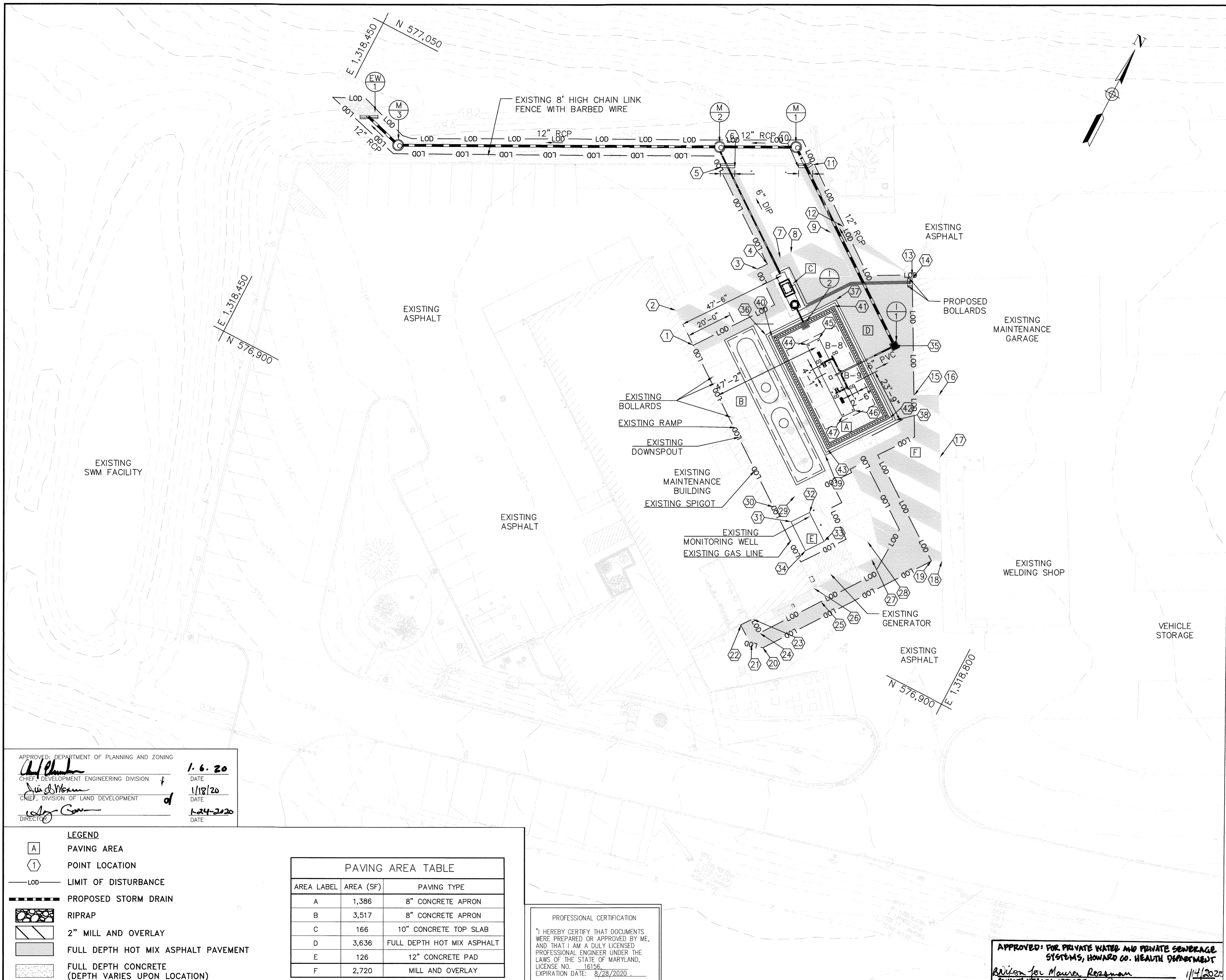
SCALE MAP NO. _____ BLOCK NO. _____

REVISED SITE DEVELOPMENT PLAN
**DAYTON HIGHWAY MAINTENANCE FACILITY
UPGRADED FUEL STORAGE & DISPENSING SYSTEM**

CAPITAL PROJECT NO. C-0322
5TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE
1"=20'

DWG NO.
C-1

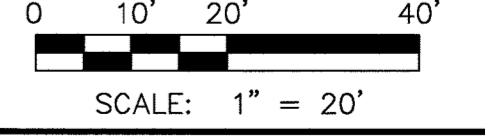


POINT TABLE				
POINT NO.	ELEV.	NORTHING	EASTING	NOTE
1	587.61	576988.1644	1318633.2902	
2	587.59	576998.1289	1318619.6394	
3	*	577030.2172	1318643.0650	
4	*	577034.0879	1318645.8878	
5	586.32±	577061.7071	1318608.4385	EDGE OF GUTTER
6	586.25±	577064.5138	1318614.0163	EDGE OF GUTTER
7	*	577038.9337	1318649.4250	
8	*	577043.1833	1318652.5270	
9	*	577058.7063	1318663.8581	
10	585.92	577077.2589	1318638.5150	EDGE OF GUTTER
11	585.84±	577081.1884	1318643.3092	EDGE OF GUTTER
12	*	577063.5876	1318667.4213	
13	*	577058.5701	1318703.5691	
14	586.21	577057.2545	1318704.2830	
15	587.38	577012.9658	1318728.2890	
16	*	577018.0011	1318737.5398	
17	*	576994.3960	1318750.3302	
18	*	576955.0435	1318771.6697	
19	*	576952.8603	1318767.6816	
20	*	576886.1002	1318720.1241	
21	*	576885.1303	1318715.1972	
22	*	576890.4262	1318707.3051	
23	*	576895.0637	1318710.7632	
24	*	576891.0190	1318716.2614	
25	*	576915.1799	1318733.4726	
26	*	576918.9968	1318728.1145	
27	*	576941.4998	1318744.5809	
28	*	576947.5357	1318739.4834	
29	587.24	576950.4955	1318702.4236	MATCH EXISTING
30	587.47	576942.1480	1318696.3303	
31	*	576940.0050	1318706.0485	
32	*	576947.2020	1318711.3001	
33	*	576939.0285	1318722.6669	
34	*	576931.7527	1318717.3578	
35	586.30	577028.0126	1318710.8075	TOP OF GRATE
36	587.31	577006.5572	1318659.1792	EDGE OF GUTTER
37	587.14	577034.0009	1318679.2502	EDGE OF GUTTER
38	586.85	576999.7621	1318726.0659	EDGE OF GUTTER
39	587.02	576972.3185	1318705.9949	EDGE OF GUTTER
40	587.55	577006.9909	1318661.9742	TOP OF CURB
41	587.40	577031.2059	1318679.6839	TOP OF CURB
42	587.11	576999.3284	1318723.2709	TOP OF CURB
43	587.26	576975.1211	1318705.5668	TOP OF CURB
44	587.74	577011.1006	1318676.9308	BOTTOM OF 6" CURB
45	587.59	577015.7072	1318680.2998	BOTTOM OF 8" CURB
46	587.40	576995.2188	1318708.3143	BOTTOM OF 8" CURB
47	587.55	576990.6063	1318704.8686	BOTTOM OF 6" CURB

- * MATCH EXISTING PAVEMENT. MAINTAIN POSITIVE DRAINAGE.
- GENERAL NOTES:
- ELEVATIONS MUST BE FIELD VERIFIED PRIOR TO PLACEMENT OF PAVEMENT TO MAINTAIN POSITIVE DRAINAGE TO INLETS, TRENCH DRAINS, AND CURB OPENING.
 - ELEVATIONS ARE TO FINISHED SURFACE UNLESS NOTED OTHERWISE.
 - LIMIT OF DISTURBANCE IS 11,963.07 SF (0.275 AC.)
 - THE STORMWATER MANAGEMENT REQUIREMENTS AS OUTLINED BY CHAPTER 5 OF THE HOWARD COUNTY DESIGN MANUAL, VOLUME I HAVE BEEN WAIVED BY THE DIRECTOR, DPW ON MAY 8, 2019.

SOIL BORING TABLE			
BORING	NORTHING	EASTING	APPROX. ELEV.
B-8	577,007.1598	1,318,687.1724	586.90'
B-9	577,005.3980	1,318,702.4565	586.91'

▲ PURPOSE: THE PURPOSE OF THIS REDLINE IS TO REMOVE AND REPLACE THE EXISTING UNDERGROUND FUEL STORAGE TANKS (UST), TO REMOVE AND REPLACE THE FUEL ISLAND/CANOPY AND TO ADD A NEW OIL WATER SEPARATOR.



SDP SHT NO. 11 OF 20

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] 1.6.20
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 [Signature] 1/18/20
 CHIEF, DIVISION OF LAND DEVELOPMENT
 [Signature] 1-24-2020
 DIRECTOR

LEGEND		
[A]	PAVING AREA	
(1)	POINT LOCATION	
---	LIMIT OF DISTURBANCE	
---	PROPOSED STORM DRAIN	
[Pattern]	RIPRAP	
[Pattern]	2" MILL AND OVERLAY	
[Pattern]	FULL DEPTH HOT MIX ASPHALT PAVEMENT	
[Pattern]	FULL DEPTH CONCRETE (DEPTH VARIES UPON LOCATION)	

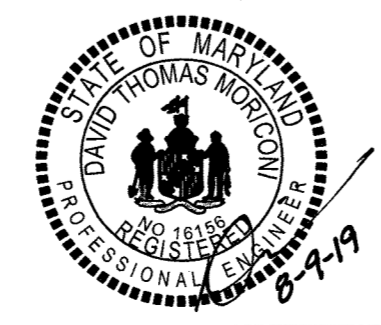
PAVING AREA TABLE		
AREA LABEL	AREA (SF)	PAVING TYPE
A	1,386	8" CONCRETE APRON
B	3,517	8" CONCRETE APRON
C	166	10" CONCRETE TOP SLAB
D	3,636	FULL DEPTH HOT MIX ASPHALT
E	126	12" CONCRETE PAD
F	2,720	MILL AND OVERLAY

PROFESSIONAL CERTIFICATION
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APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD CO. HEALTH DEPARTMENT
 [Signature] 1/14/2020
 COUNTY HEALTH OFFICER

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 [Signature] 8/23/19
 DIRECTOR OF PUBLIC WORKS
 [Signature] 08/14/2019
 CHIEF, DESIGN & CONSTRUCTION, BUREAU OF FACILITIES

[Signature] 08/12/2019
 CHIEF, OPERATIONS & MAINTENANCE, BUREAU OF FACILITIES

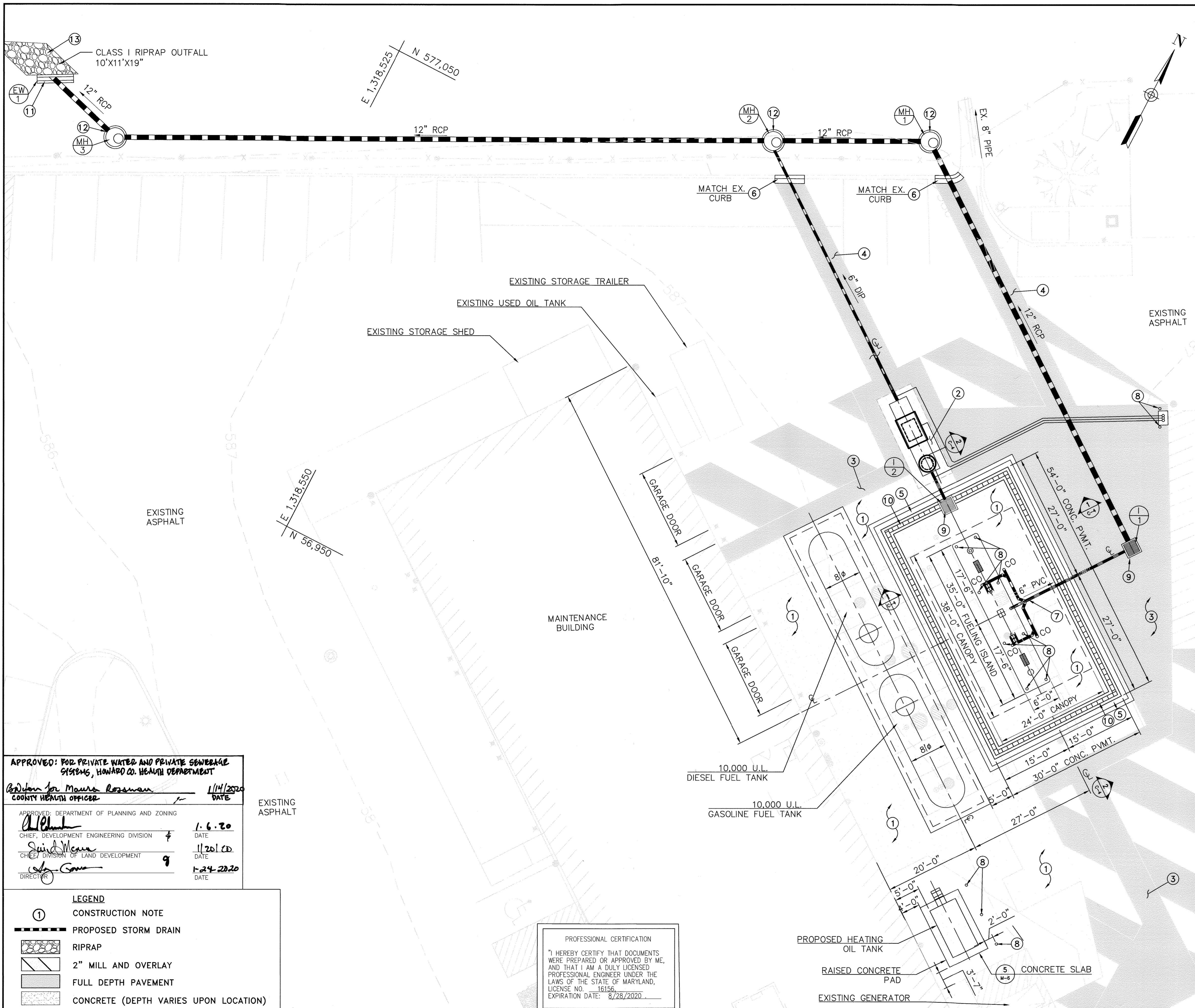


DES:	NJF				
DRN:	NJF				
CHK:	DTM				
DATE:	08/2019	DTM	▲	INSERT NEW SHEET	08/2019
BY:	NO.	REVISION			DATE

SITE LAYOUT/
 PAVING PLAN

REVISED SITE DEVELOPMENT PLAN
 DAYTON HIGHWAY MAINTENANCE FACILITY
 UPGRADED FUEL STORAGE &
 DISPENSING SYSTEM
 CAPITAL PROJECT NO. C-0322
 5TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE: 1"=20'
 DWG NO. C-2



- GENERAL NOTE**
 THE CONTRACTOR SHALL MAINTAIN FULL ACCESS TO THE MAINTENANCE FACILITIES YARD DURING THE CONSTRUCTION OF THE FUEL STORAGE FACILITY.
- CONSTRUCTION NOTES**
- ① INSTALL CONCRETE PAVEMENT. PAVEMENT SECTIONS SHALL BE PER DWG. NO. C-4.
 - ② INSTALL REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT. PAVEMENT SECTION SHALL BE PER DWG. NO. M-10.
 - ③ PROPOSED FULL DEPTH HOT MIX ASPHALT PAVEMENT SHALL BE PER DWG. NO. C-4.
 - ④ UTILITY TRENCH ROADWAY REPAVING PER DPW. STD G-4.01. PAVEMENT SECTIONS SHALL BE PER DWG. NO. C-5.
 - ⑤ INSTALL MODIFIED COMBINATION CURB AND GUTTER PER DPW. STD. R-3.01.
 - ⑥ INSTALL COMBINATION CURB AND GUTTER PER DPW. STD. R-3.01. MATCH EXISTING.
 - ⑦ INSTALL CANOPY DRAIN OUTLET SYSTEM PER DWG. NO. C-5.
 - ⑧ INSTALL 6"Ø STEEL BOLLARD PER DWG. NO. M-2.
 - ⑨ INSTALL TYPE 'S' INLET PER DPW. STD D-4.42.
 - ⑩ INSTALL TRENCH DRAIN PER DWG. NO. C-6.
 - ⑪ INSTALL TYPE 'C' ENDWALL PER DPW. STD. D-5.21.
 - ⑫ INSTALL PRECAST MANHOLE PER DPW. STD. G-5.12.
 - ⑬ PROPOSED CLASS I RIPRAP OUTFALL SHALL BE PER DWG. NO. C-7.

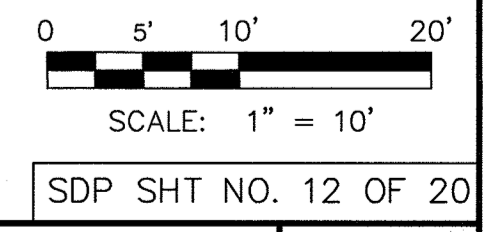
▲ PURPOSE:
 THE PURPOSE OF THIS REDLINE IS TO REMOVE AND REPLACE THE EXISTING UNDERGROUND FUEL STORAGE TANKS (UST), TO REMOVE AND REPLACE THE FUEL ISLAND/CANOPY AND TO ADD A NEW OIL WATER SEPARATOR.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD CO. HEALTH DEPARTMENT
Madison for Maure Roszman 11/4/2020
 COUNTY HEALTH OFFICER DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 1.6.20
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
[Signature] 11/20/20
 CHIEF DIVISION OF LAND DEVELOPMENT DATE
[Signature] 1-24-2020
 DIRECTOR DATE

- LEGEND**
- ① CONSTRUCTION NOTE
 - PROPOSED STORM DRAIN
 - ▨ RIPRAP
 - ▨ 2" MILL AND OVERLAY
 - ▨ FULL DEPTH PAVEMENT
 - ▨ CONCRETE (DEPTH VARIES UPON LOCATION)

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16156, EXPIRATION DATE: 8/28/2020.



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

[Signature] 8/23/19
 DIRECTOR OF PUBLIC WORKS DATE

[Signature] 08-14-2019
 CHIEF, DESIGN & CONSTRUCTION, BUREAU OF FACILITIES DATE

[Signature] 08-22-2019
 CHIEF, OPERATIONS & MAINTENANCE, BUREAU OF FACILITIES DATE



DES:	NJF				
DRN:	NJF				
CHK:	DTM				
DATE:	08/2019	DTM	▲	NEW SHEET ADDED	08/2019
BY:		NO.		REVISION	DATE

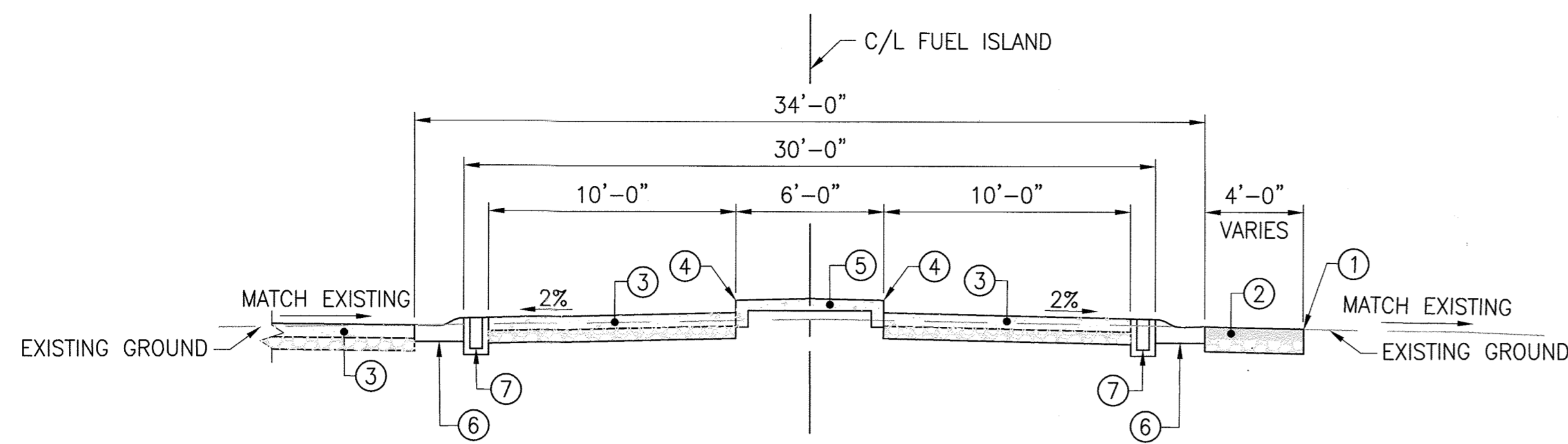
SITE PLAN

SCALE MAP NO. _____ BLOCK NO. _____

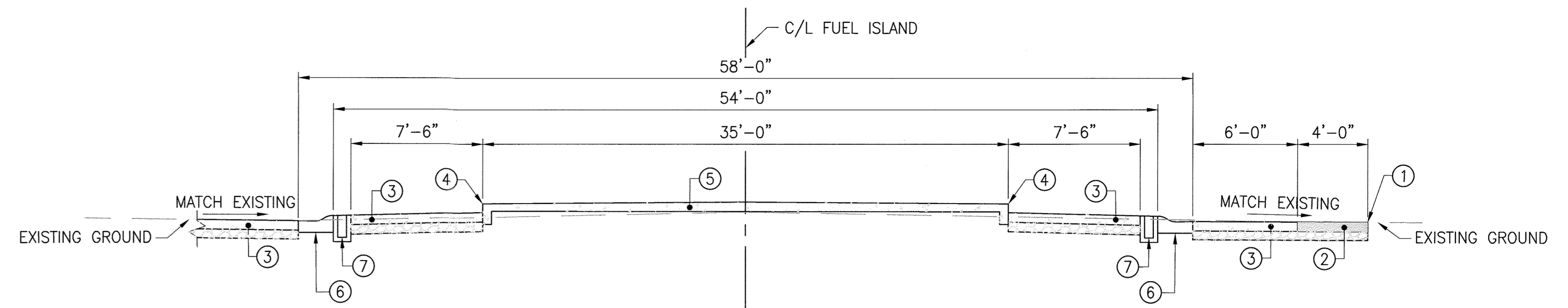
REVISED SITE DEVELOPMENT PLAN
**DAYTON HIGHWAY MAINTENANCE FACILITY
 UPGRADED FUEL STORAGE &
 DISPENSING SYSTEM**

CAPITAL PROJECT NO. C-0322
 5TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE
 1"=10'
 DWG NO.
 C-3



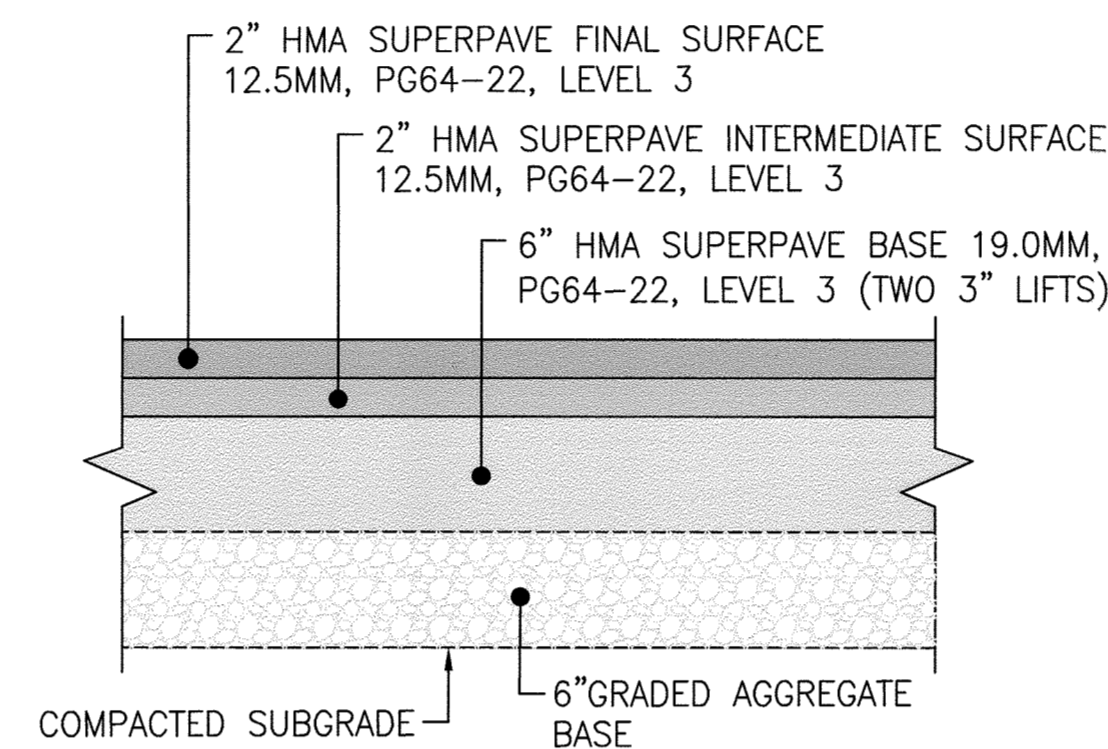
1 DAYTON TYPICAL SECTION
SCALE: N.T.S.



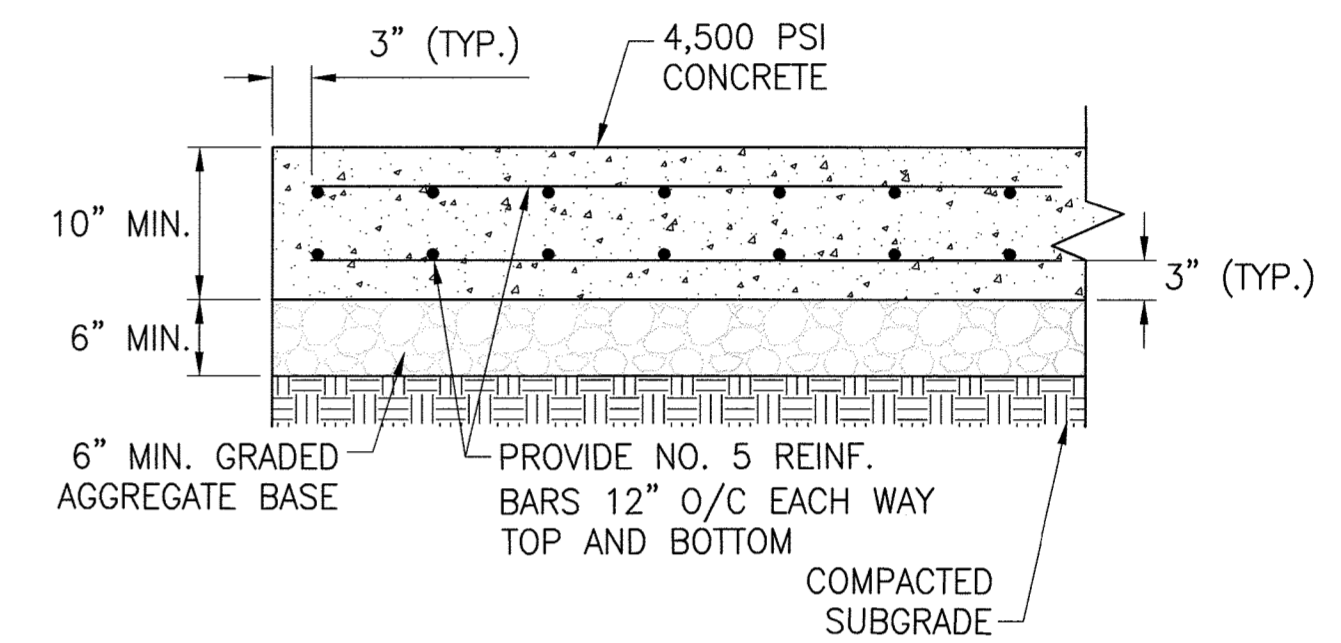
2 DAYTON TYPICAL SECTION
SCALE: N.T.S.

LEGEND

- 1 FULL DEPTH SAWCUT - SITE PLAN
- 2 FULL DEPTH HOT MIX ASPHALT PAVEMENT
- 3 10" REINFORCED PORTLAND CEMENT CONCRETE SLAB
- 4 13" CONCRETE BARRIER CURB WITH STAINLESS STEEL FORM (6"-8" EXPOSED)
- 5 5" MONOLITHIC CONCRETE DISPENSER ISLAND
- 6 MODIFIED COMBINATION CURB AND GUTTER
- 7 TRENCH DRAIN



3 FULL DEPTH HOT MIX ASPHALT PAVEMENT SECTION
SCALE: N.T.S.



4 CONCRETE PAVEMENT SECTION
SCALE: N.T.S.

PLAN
DISPOSITION OF BARS - DETAIL

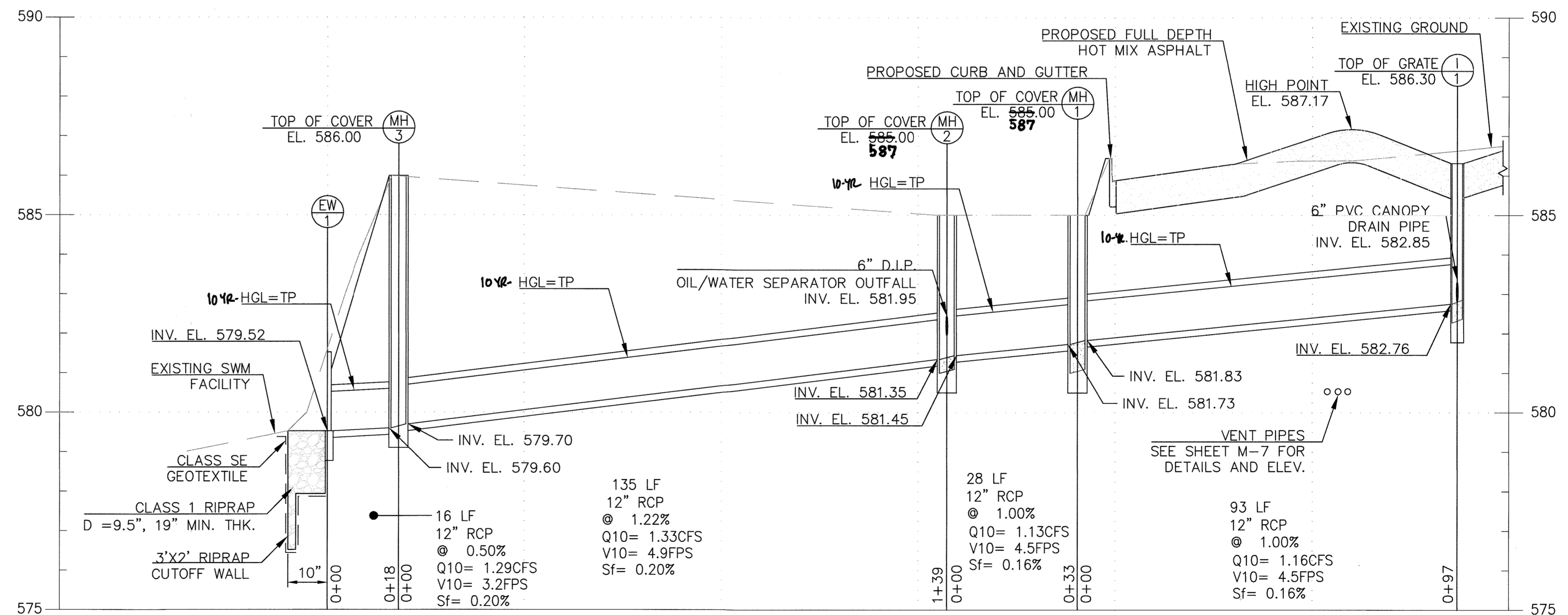
REINFORCING: DEFORMED STEEL BARS (1/2" DIA) CHAMFER ALL EXPOSED EDGES 1/4" OR AS DIRECTED CONCRETE SHALL BE MIX NO. 2.

ELEVATION
SECTION A-A

QUANTITIES FOR ESTIMATION PURPOSES ONLY

OPENING D AREA INCHES SQ FT	DIMENSIONS							CONC. CY	STEEL LBS
	A	B	C	E	F	H	L		
12	0.79	9"	6"	6"	1'-0"	9"	1'-0"	0.61	41
15	1.23	9"	6"	6"	1'-0"	9"	2'-0"	0.77	47
18	1.77	9"	6"	6"	1'-0"	9"	2'-3"	0.95	54
21	2.40	9"	6"	6"	1'-0"	9"	2'-6"	1.14	70
24	3.14	9"	6"	6"	2'-0"	9"	2'-9"	1.56	80
27	3.98	9"	6"	6"	2'-0"	9"	3'-0"	1.82	88
30	4.91	9"	6"	6"	2'-0"	12"	3'-0"	2.22	98
33	5.94	9"	6"	6"	2'-0"	12"	3'-6"	2.48	105
36	7.07	12"	10"	10"	3'-2"	12"	4'-0"	4.16	182
42	9.82	12"	10"	10"	3'-2"	12"	4'-6"	5.07	206
48	12.87	12"	10"	10"	3'-2"	12"	5'-0"	6.09	244
54	15.80	12"	10"	10"	3'-2"	12"	5'-6"	7.62	275
60	19.64	12"	10"	10"	3'-2"	12"	6'-0"	8.82	304
72	28.27	12"	10"	10"	3'-2"	12"	7'-0"	11.46	377

Howard County, Maryland
Department of Public Works
Type 'C' Endwall
Circular Pipe
Detail
D-5.21



6 STORM DRAIN PIPE PROFILE
SCALE: H 1"=20' / V 1"=2'

5 TYPE 'C' ENDWALL
SCALE: N.T.S.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ENGINEERING DIVISION
CHIEF, DIVISION OF LAND DEVELOPMENT
DIRECTOR

DATE: 1.6.20
DATE: 1/18/20
DATE: 1-24-2020

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
FOR: MAURICE ROSSMAN
COUNTY HEALTH OFFICER
DATE: 1/14/2020

PROFESSIONAL CERTIFICATION
"I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16156, EXPIRATION DATE: 8/28/2020"

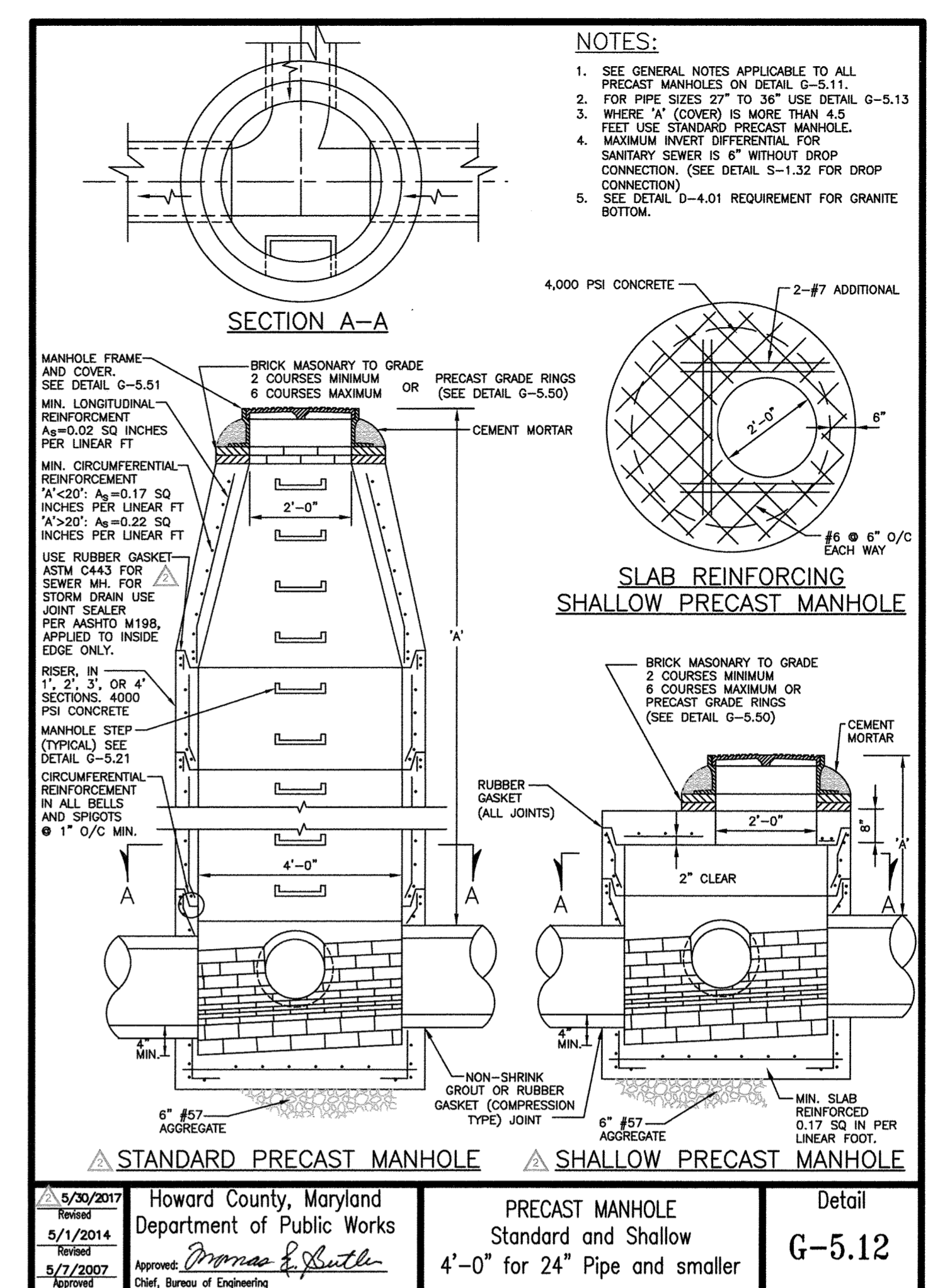
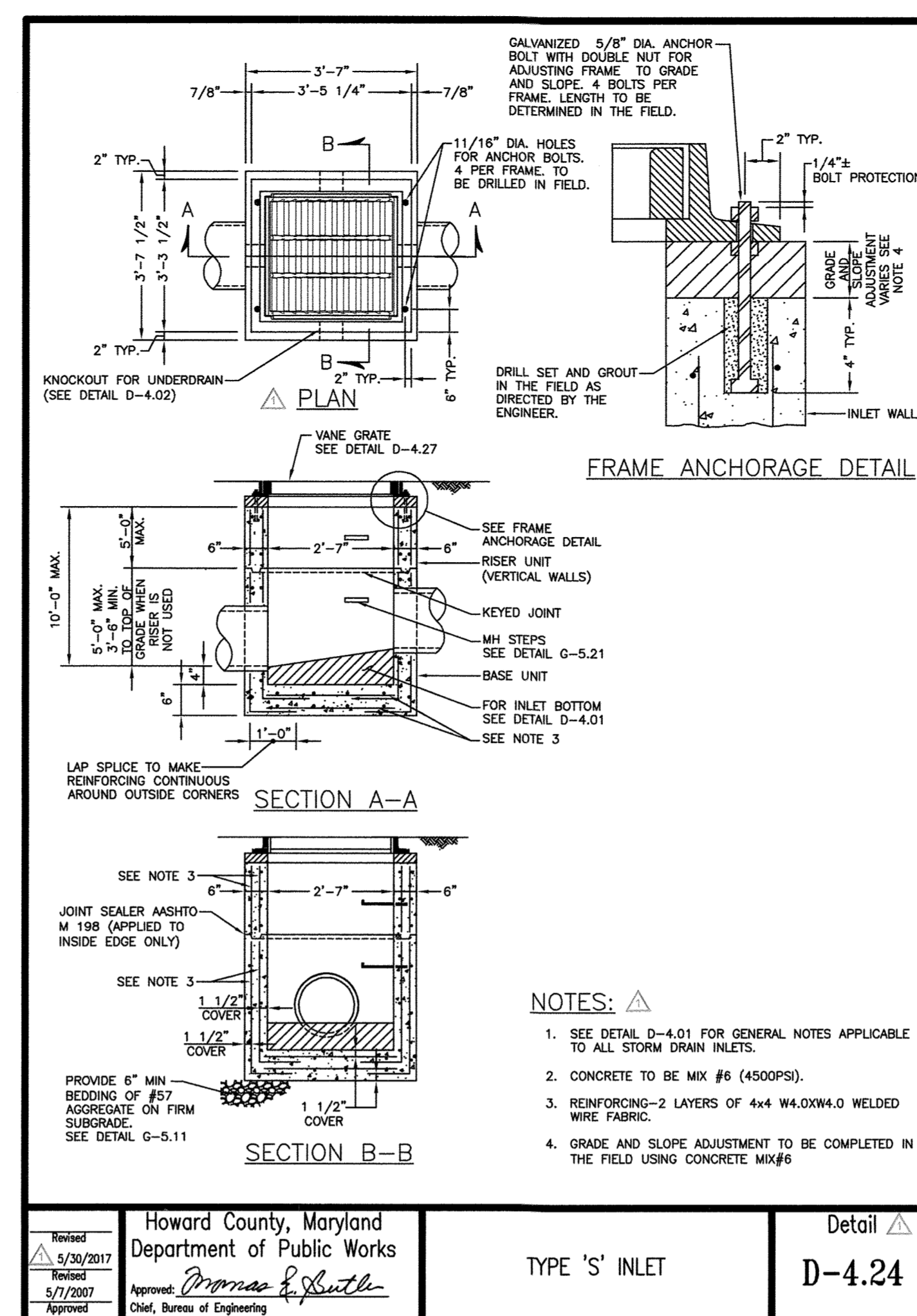
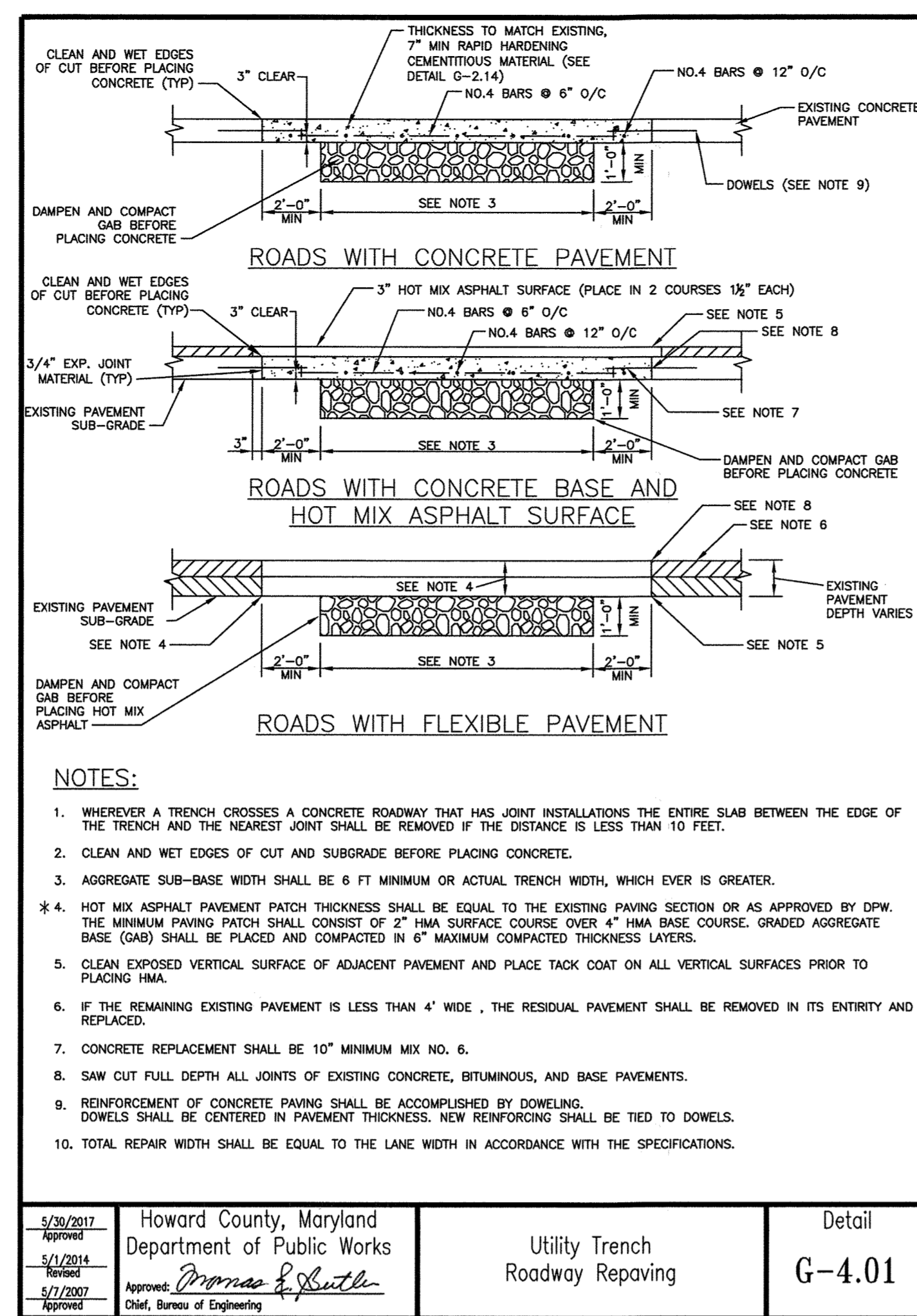
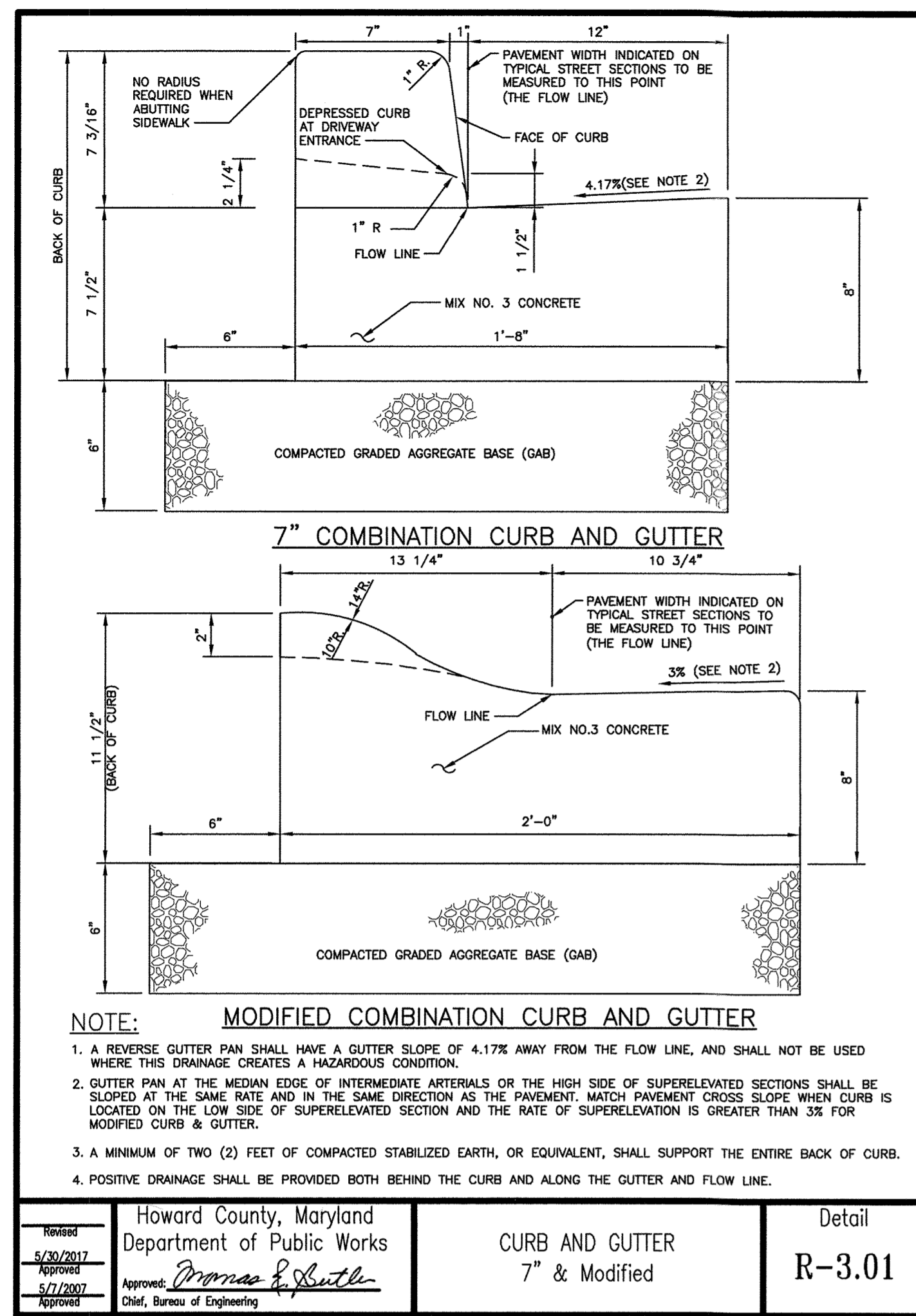
GENERAL NOTES

- FOR OIL/WATER SEPARATOR OUTFALL PIPE PROFILE, SEE DWG. NO. C-7.
- FOR RIPRAP OUTFALL DETAILS, SEE DWG. NO. C-7.

PURPOSE: THE PURPOSE OF THIS REDLINE IS TO REMOVE AND REPLACE THE EXISTING UNDERGROUND FUEL STORAGE TANKS (UST), TO REMOVE AND REPLACE THE FUEL ISLAND/CANOPY AND TO ADD A NEW OIL WATER SEPARATOR.

SDP SHT. NO. 13 OF 20

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DIRECTOR OF PUBLIC WORKS CHIEF, DESIGN & CONSTRUCTION, BUREAU OF FACILITIES	AECOM	DES: NJF DRN: NJF CHK: DTM DATE: 08/2019	SITE DETAILS I	REVISED SITE DEVELOPMENT PLAN DAYTON HIGHWAY MAINTENANCE FACILITY UPGRADED FUEL STORAGE & DISPENSING SYSTEM CAPITAL PROJECT NO. C-0322 5TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND	SCALE AS SHOWN DWG NO. C-4
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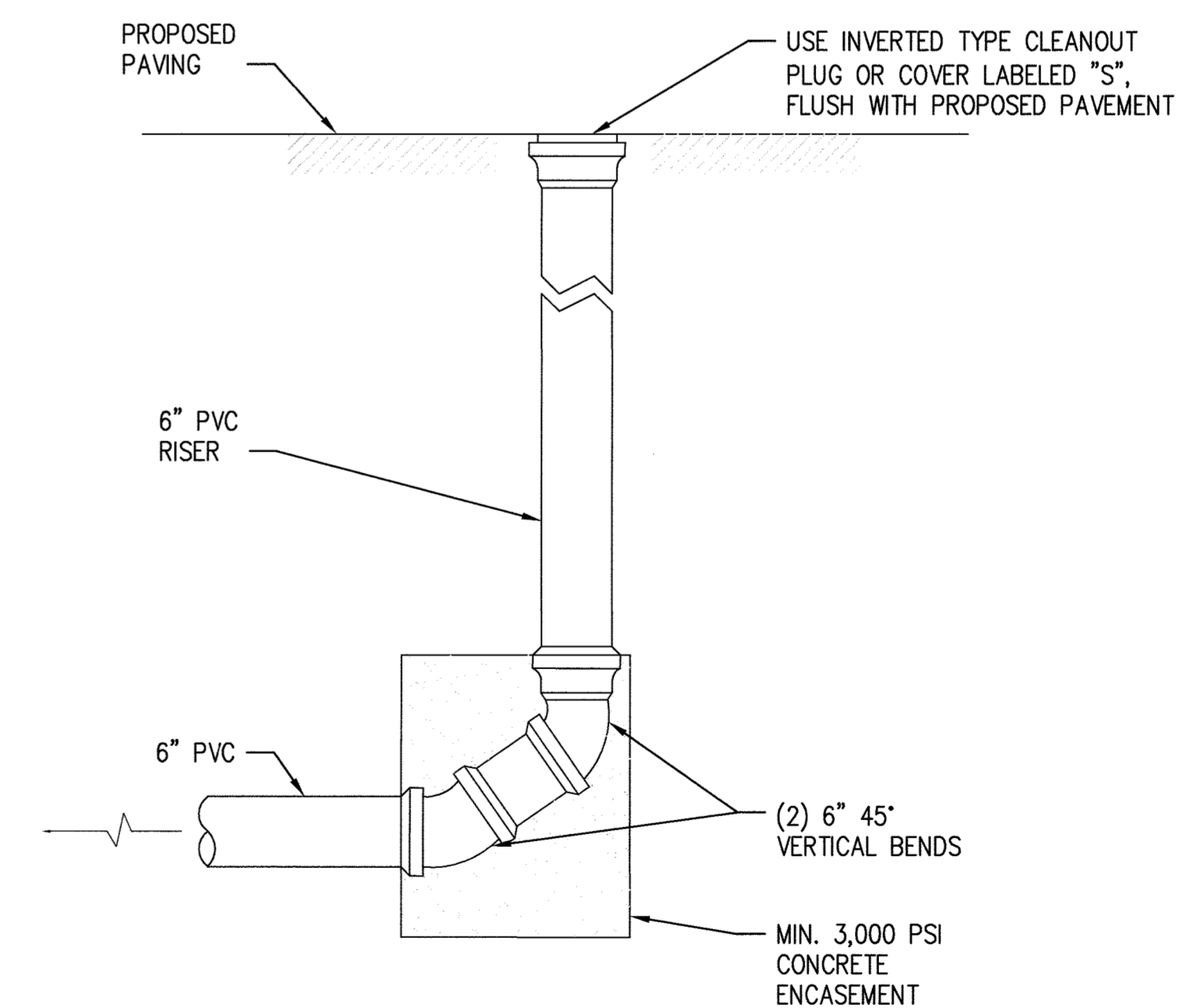
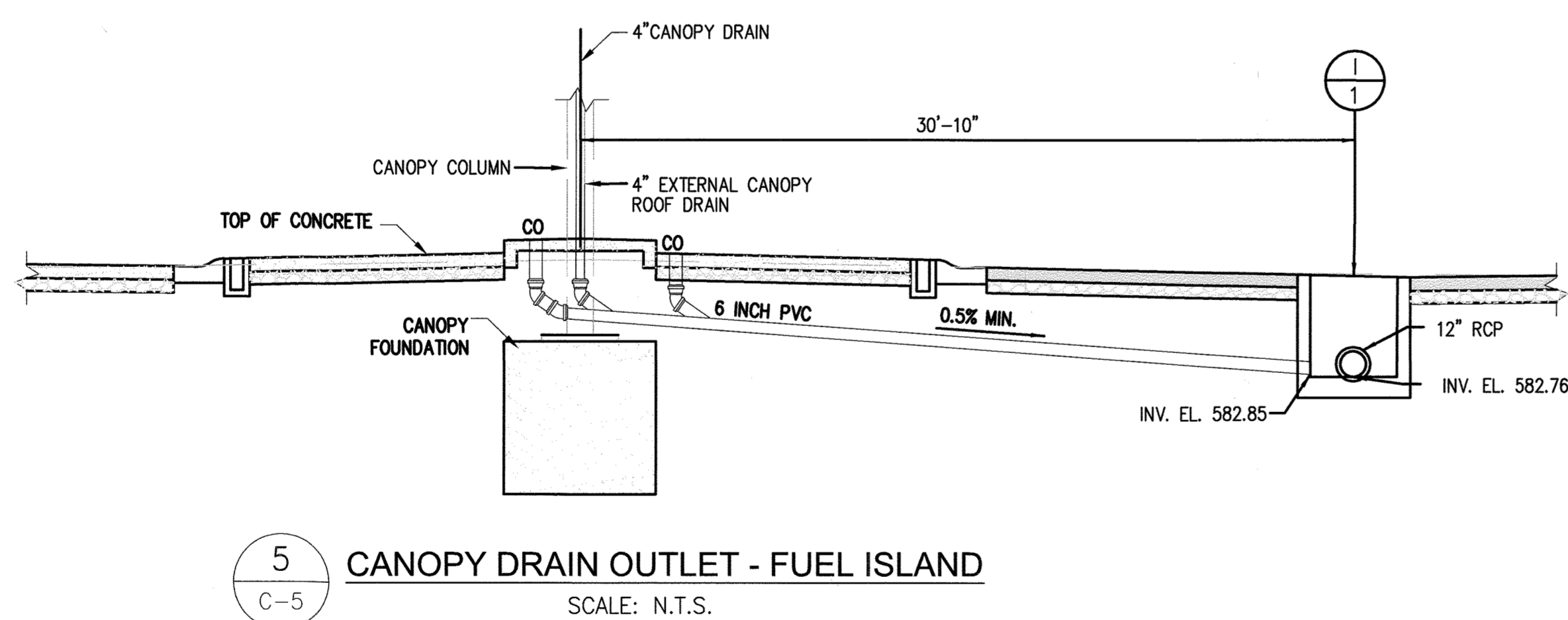
1 CURB & GUTTER
C-5 SCALE: N.T.S.

2 UTILITY TRENCH ROADWAY REPAVING
C-5 SCALE: N.T.S.

3 TYPE 'S' INLET
C-5 SCALE: N.T.S.

4 PRECAST MANHOLE
C-5 SCALE: N.T.S.

*FOR FULL DEPTH ASPHALT PAVEMENT SECTION SEE DWG. NO. C-4



APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 CHIEF, DIVISION OF LAND-DEVELOPMENT
 DATE: 1.6.20
 DATE: 1/13/20
 DATE: 1-24-2020

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD CO. HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER
 DATE: 1/14/2020

PROFESSIONAL CERTIFICATION
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PURPOSE: THE PURPOSE OF THIS REDLINE IS TO REMOVE AND REPLACE THE EXISTING UNDERGROUND FUEL STORAGE TANKS (UST), TO REMOVE AND REPLACE THE FUEL ISLAND/CANOPY AND TO ADD A NEW OIL WATER SEPARATOR.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 DIRECTOR OF PUBLIC WORKS
 CHIEF, DESIGN & CONSTRUCTION, BUREAU OF FACILITIES

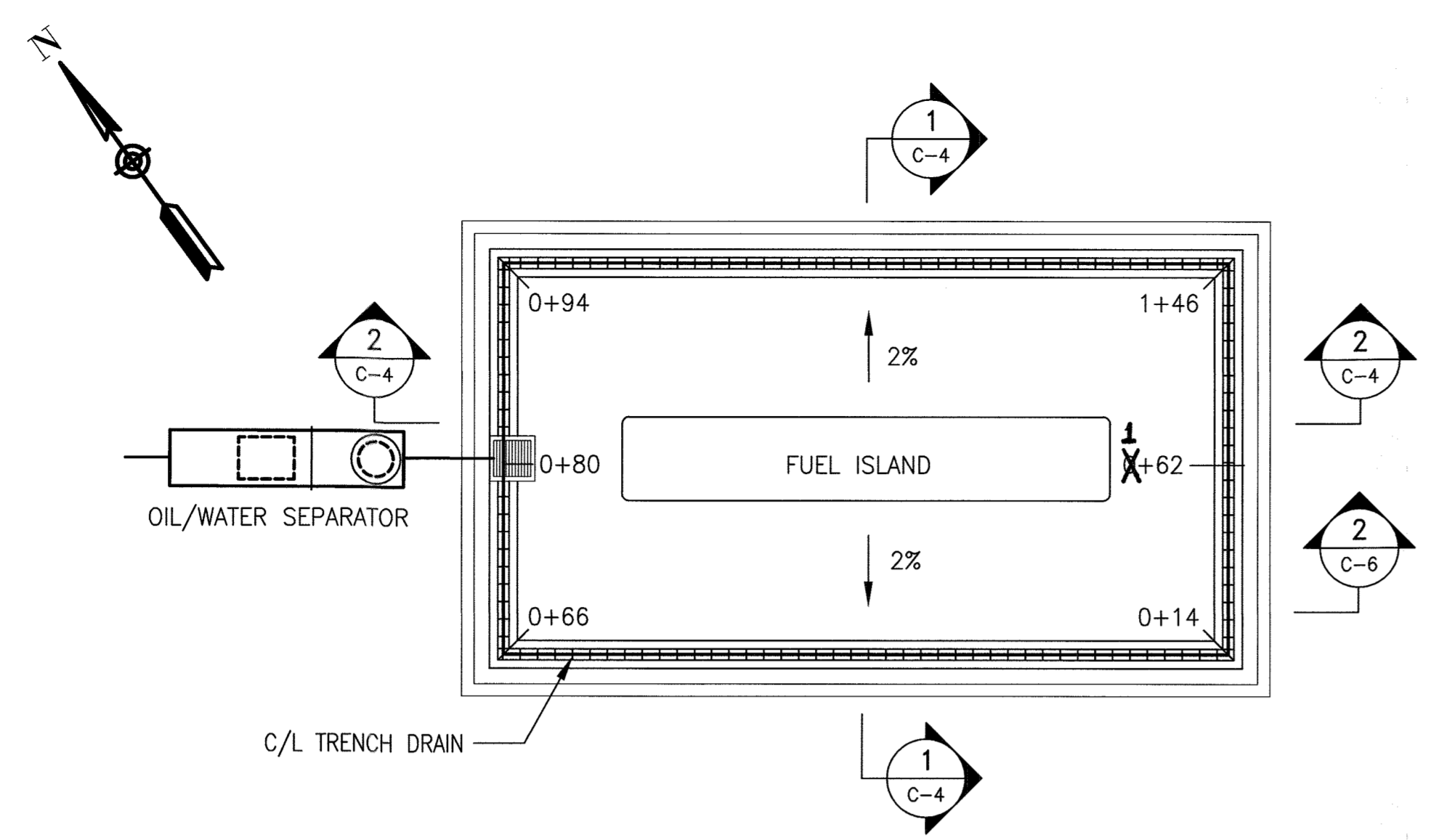


DES:	NJF		
DRN:	NJF		
CHK:	DTM		
DATE:	08/2019		
BY:	NO.	REVISION	DATE
		NEW SHEET ADDED	08/2019

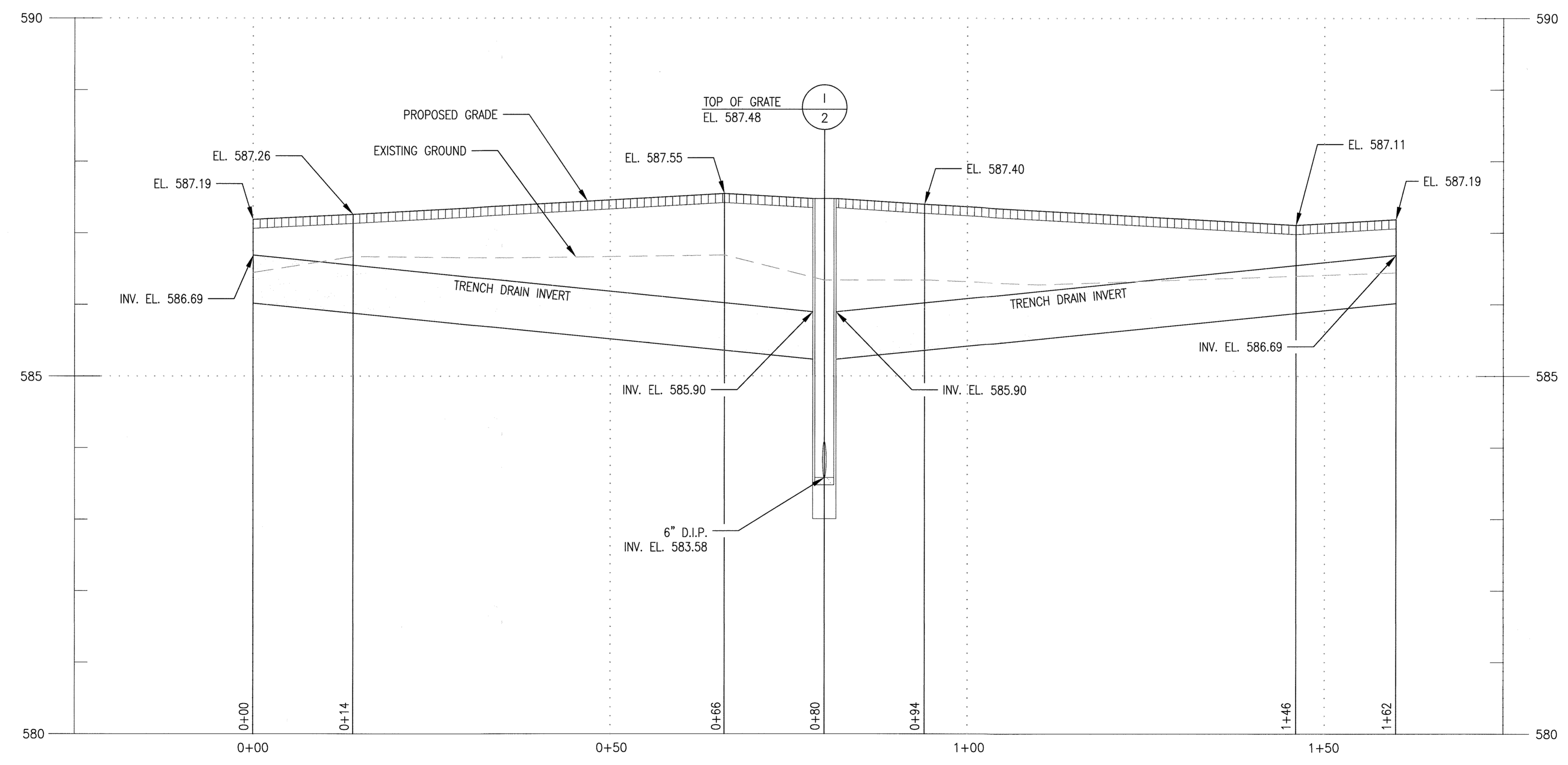
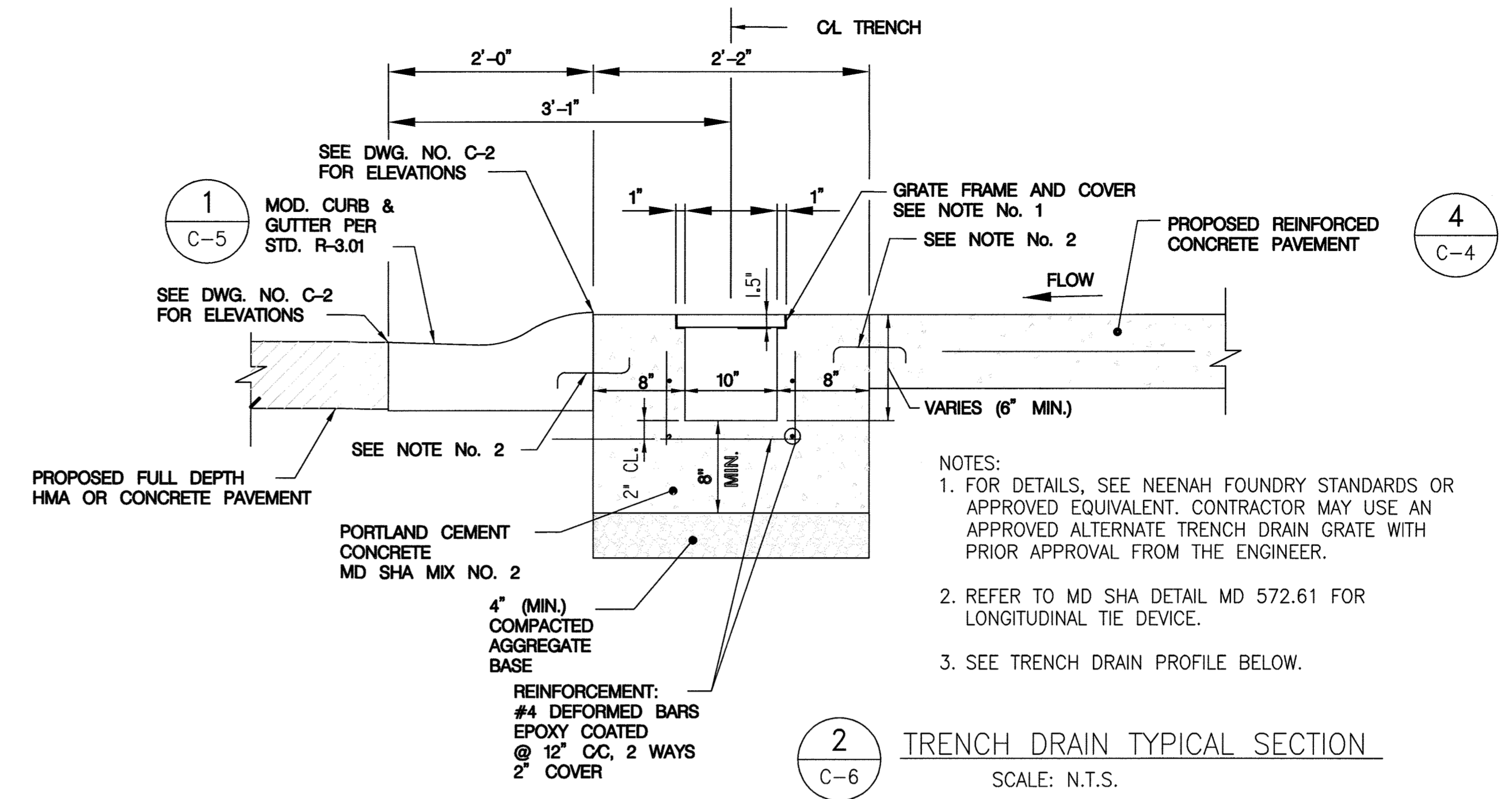
SITE DETAILS II

REVISED SITE DEVELOPMENT PLAN
 DAYTON HIGHWAY MAINTENANCE FACILITY
 UPGRADED FUEL STORAGE & DISPENSING SYSTEM

SCALE AS SHOWN
 DWG NO. C-5



1 TRENCH DRAIN PLAN
C-6 SCALE: N.T.S.



APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 1.6.20
CHIEF DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 1/18/20
CHIEF DIVISION OF LAND DEVELOPMENT DATE

[Signature] 1-24-2020
DIRECTOR DATE

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD CO. HEALTH DEPARTMENT

[Signature] 1/14/2020
COUNTY HEALTH OFFICER DATE

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16156, EXPIRATION DATE: 8/28/2020

△ PURPOSE:
THE PURPOSE OF THIS REDLINE IS TO REMOVE AND REPLACE THE EXISTING UNDERGROUND FUEL STORAGE TANKS (UST), TO REMOVE AND REPLACE THE FUEL ISLAND/CANOPY AND TO ADD A NEW OIL WATER SEPARATOR.

SDP SHT NO. 15 OF 20

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 8/23/19
DIRECTOR OF PUBLIC WORKS DATE

[Signature] 08-14-2019
CHIEF, DESIGN & CONSTRUCTION, BUREAU OF FACILITIES DATE

[Signature] 08-17-2019
CHIEF, OPERATIONS & MAINTENANCE, BUREAU OF FACILITIES DATE



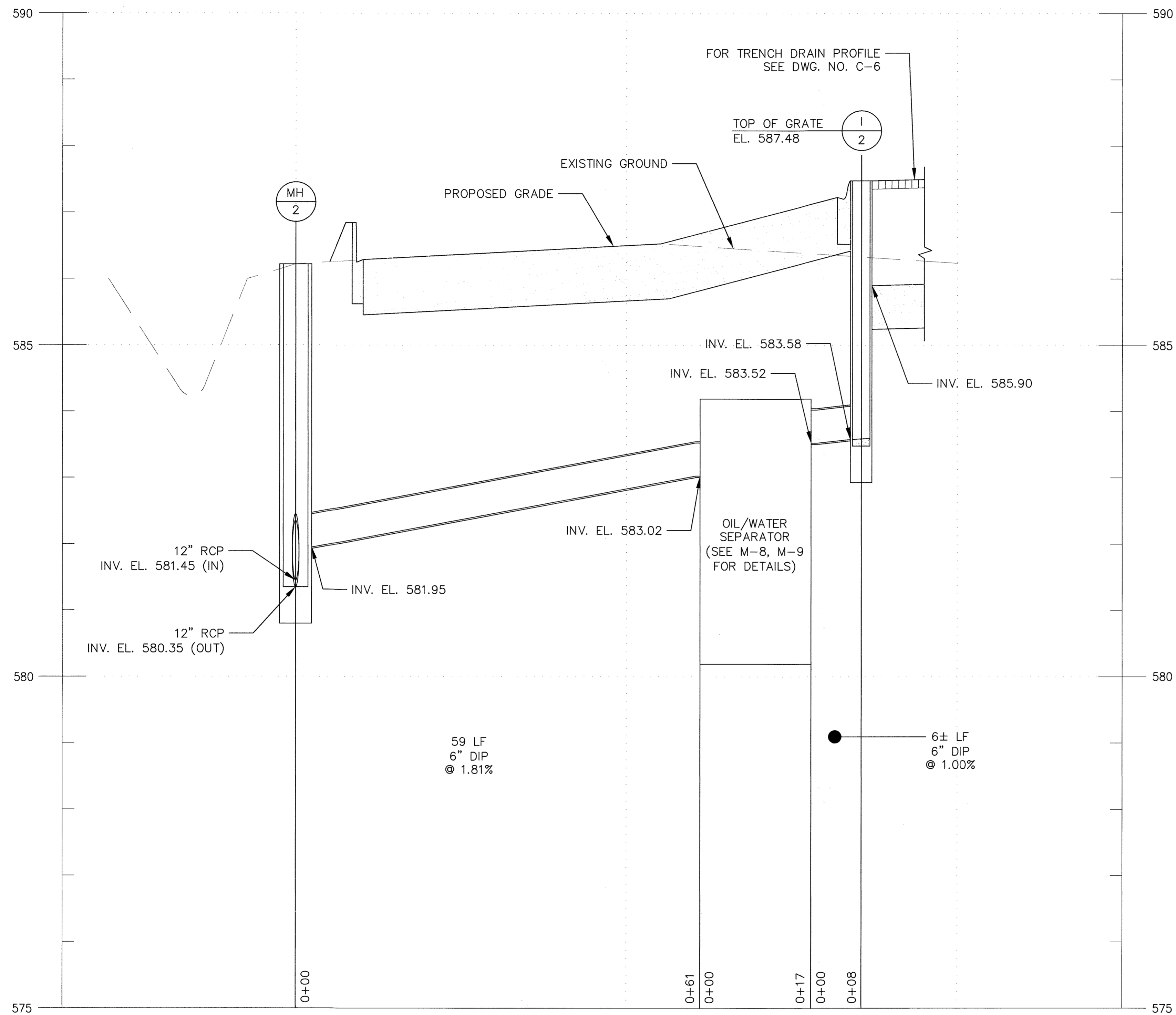
DES:	NJF			
DRN:	NJF			
CHK:	DTM			
DATE:	08/2019	DTM	NEW SHEET ADDED	08/2019
BY:		NO.	REVISION	DATE

SITE DETAILS III

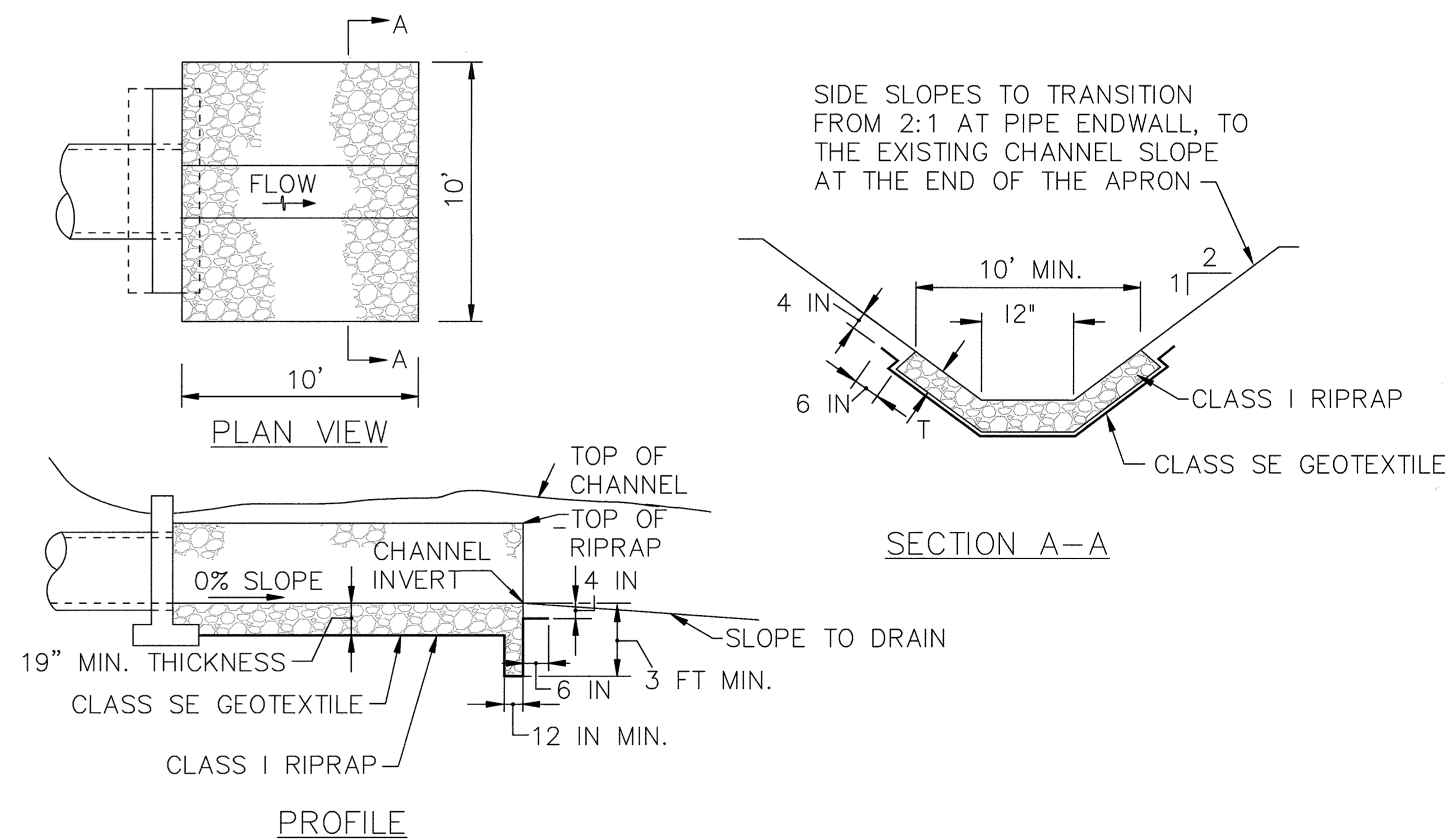
REVISED SITE DEVELOPMENT PLAN
DAYTON HIGHWAY MAINTENANCE FACILITY
UPGRADED FUEL STORAGE & DISPENSING SYSTEM

CAPITAL PROJECT NO. C-0322
5TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
DWG NO. C-6



1 OIL/WATER SEPARATOR OUTFALL PIPE PROFILE
 SCALE: H 1"=10' / V 1"=2'



2 ROCK OUTLET PROTECTION DETAILS
 SCALE: N.T.S.

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DIRECTOR

1-6-20
 1/12/20
 1-24-2020
 DATE

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD CO. HEALTH DEPARTMENT
 DIVISION FOR MAINTENANCE
 COUNTY HEALTH OFFICER

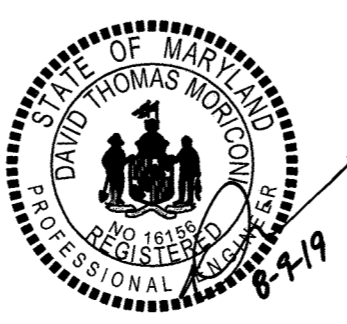
1/14/2020
 DATE

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16156, EXPIRATION DATE: 8/28/2020

PURPOSE:
 THE PURPOSE OF THIS REDLINE IS TO REMOVE AND REPLACE THE EXISTING UNDERGROUND FUEL STORAGE TANKS (UST), TO REMOVE AND REPLACE THE FUEL ISLAND/CANOPY AND TO ADD A NEW OIL WATER SEPARATOR.

SDP SHT. NO. 16 OF 20

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 DIRECTOR OF PUBLIC WORKS
 CHIEF, DESIGN & CONSTRUCTION, BUREAU OF FACILITIES

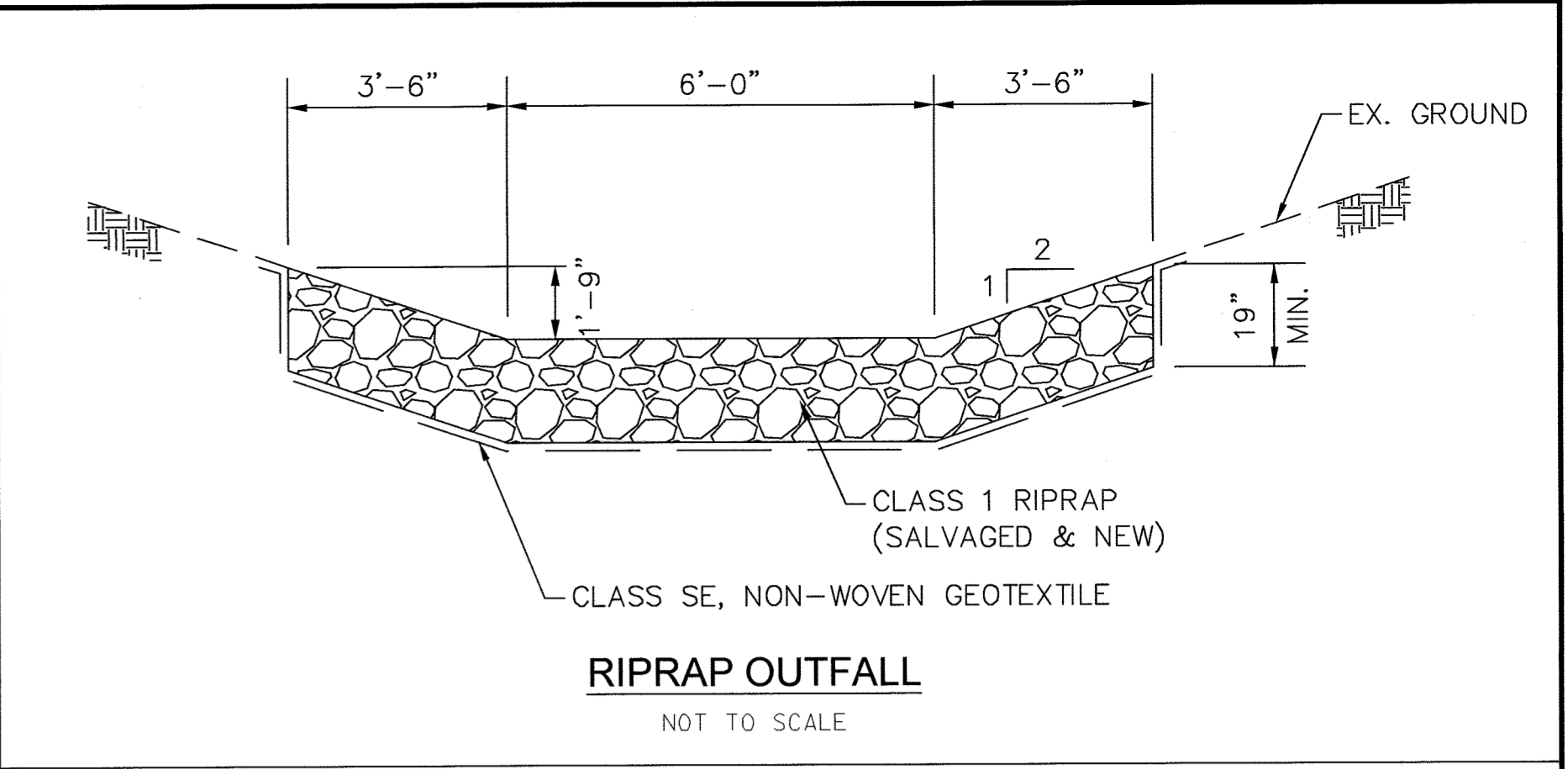
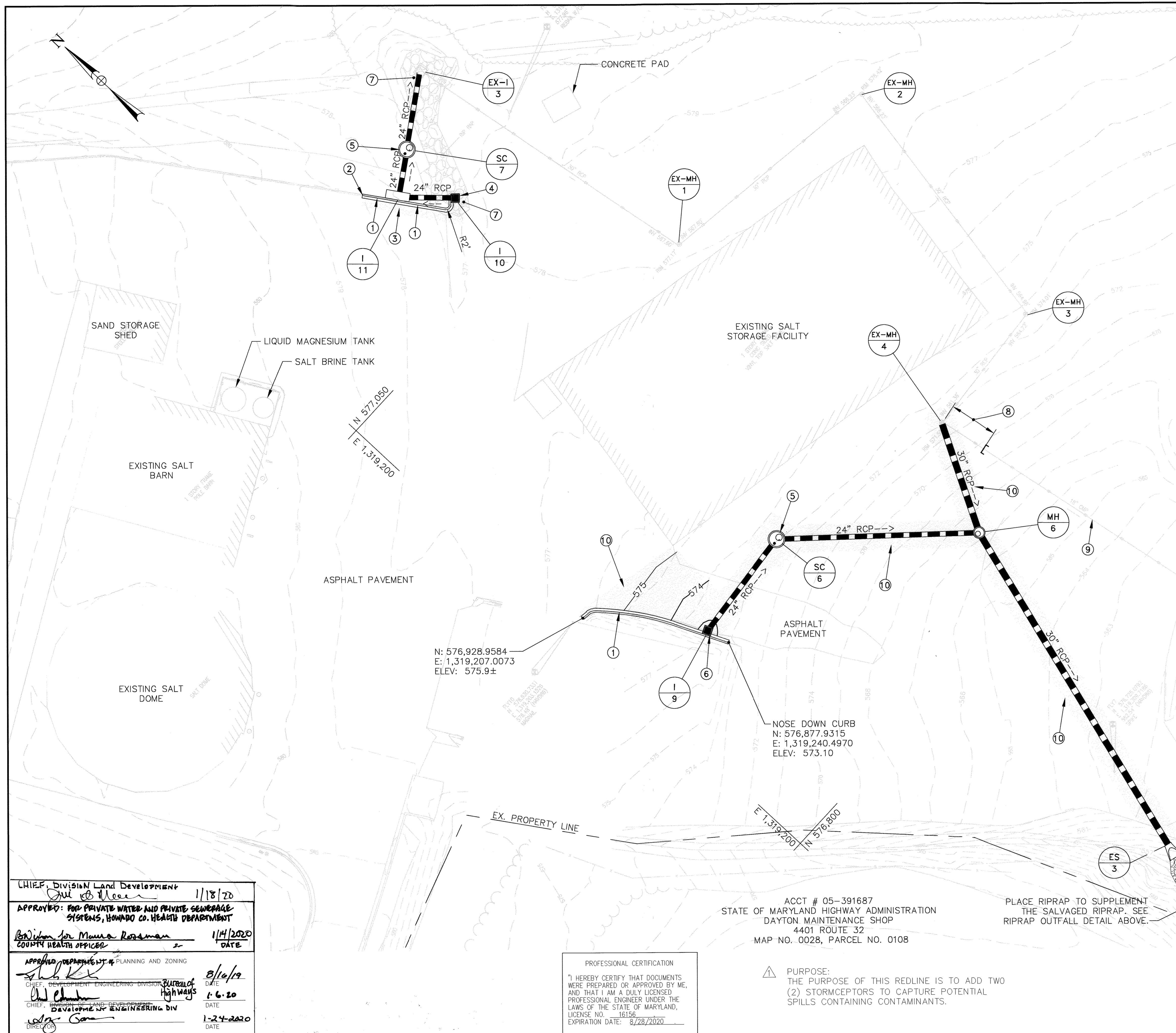


DES:	NJF		
DRN:	NJF		
CHK:	DTM		
DATE:	08/2019		
DTM	NEW SHEET ADDED	08/2019	
BY			
NO.			
REVISION			
DATE			

SITE DETAILS IV

REVISED SITE DEVELOPMENT PLAN
**DAYTON HIGHWAY MAINTENANCE FACILITY
 UPGRADED FUEL STORAGE &
 DISPENSING SYSTEM**
 CAPITAL PROJECT NO. C-0322
 5TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

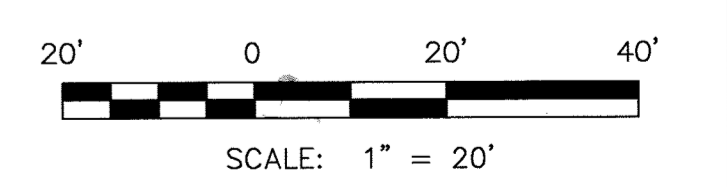
SCALE AS SHOWN
 DWG NO. C-7



ACCT # 05-391687
 HOWARD COUNTY MARYLAND
 DEPARTMENT OF PUBLIC WORKS
 4300 ROUTE 32
 MAP NO. 0028, PARCEL NO. 0164

- NEW CONSTRUCTION NOTES**
- 1 INSTALL 7 INCH COMBINATION CURB AND GUTTER (STD. R-3.01)
 - 2 TRANSITION CURB TO MEET EXISTING CONCRETE CURB (3'±)
 - 3 INSTALL TYPE A-10 INLET (STD. D-4.03)
 - 4 INSTALL TYPE 'S' INLET (STD. D-4.24)
 - 5 INSTALL STORMCEPTOR STC-900.
 - 6 INSTALL TYPE 'S' COMBINATION INLET (STD. D-4.26)
 - 7 REMOVE RIPRAP/RESET AND SALVAGE AS AVAILABLE
 - 8 REMOVE APPROXIMATELY 20L.F. 18" CMP, PLUG END
 - 9 FILL 18" CMP WITH FLOWABLE FILL FROM CAPPED END TO EX. MH-5, PLUG AT MH-5.
 - 10 FULL DEPTH HOT MIX ASPHALT (P-4 PER STD. R-2.01) OR WELL COMPACTED GRAVEL TO MATCH EXISTING

- LEGEND**
- RIGHT-OF-WAY/PROPERTY LINE
 - ||||| 100-YR FLOODPLAIN
 - 250- EXISTING CONTOURS
 - 250- PROPOSED CONTOURS
 - S EXISTING SEWER
 - W EXISTING WATER
 - E EXISTING UNDERGROUND ELECTRIC
 - SD EXISTING STORM DRAIN
 - PROPOSED STORM DRAIN
 - LOD LIMIT OF DISTURBANCE
 - RIPRAP
 - FULL DEPTH PAVEMENT
 - REMOVAL OF EXISTING CONCRETE OR ASPHALT



CHIEF, Division Land Development
Julie W. Hester 1/18/20
 APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
Benjamin J. Rossman 1/14/2020
 COUNTY HEALTH OFFICER
 APPROVED DEPARTMENT OF PLANNING AND ZONING
Shirley 8/16/19
 CHIEF, DEVELOPMENT ENGINEERING DIVISION, Bureau of Highways
Al Chubb 1-6-20
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
Adrian 1-24-2020
 DIRECTOR

N: 576,928.9584
 E: 1,319,207.0073
 ELEV: 575.9±

NOSE DOWN CURB
 N: 576,877.9315
 E: 1,319,240.4970
 ELEV: 573.10

ACCT # 05-391687
 STATE OF MARYLAND HIGHWAY ADMINISTRATION
 DAYTON MAINTENANCE SHOP
 4401 ROUTE 32
 MAP NO. 0028, PARCEL NO. 0108

PLACE RIPRAP TO SUPPLEMENT THE SALVAGED RIPRAP. SEE RIPRAP OFFFALL DETAIL ABOVE.

PROFESSIONAL CERTIFICATION
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PURPOSE:
 THE PURPOSE OF THIS REDLINE IS TO ADD TWO (2) STORMCEPTORS TO CAPTURE POTENTIAL SPILLS CONTAINING CONTAMINANTS.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
Mark D. Davis 8/5/19
 CHIEF, BUREAU OF ENVIRONMENTAL SERVICES
 CHIEF, DEVELOPMENT ENGINEERING DIVISION



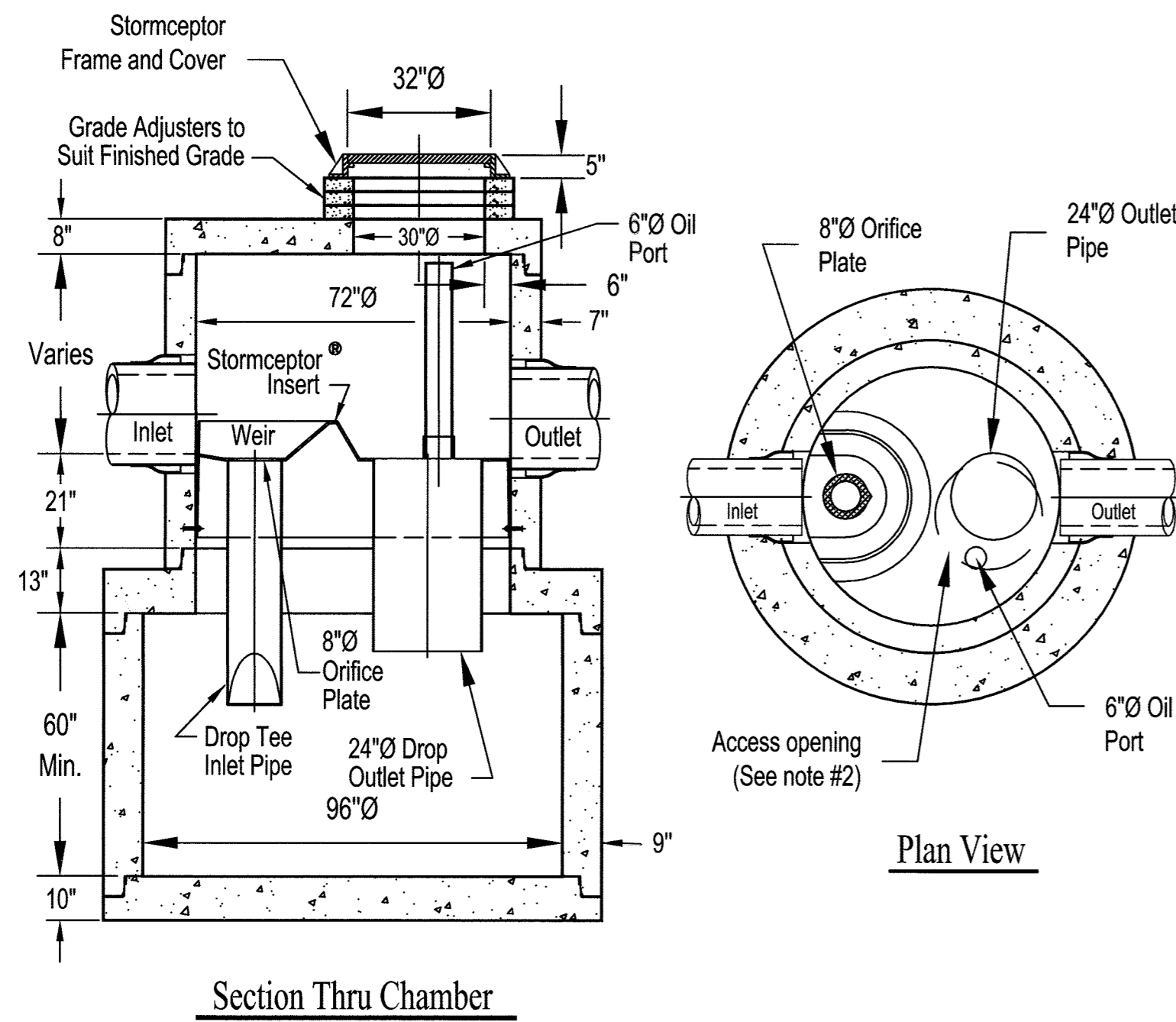
DES:	KMS		
DRN:	CDF		
CHK:	DTM		
DATE:	08/2019		
BY:	NO.	REVISION	DATE
		NEW SHEET ADDED	08/2019

STORMWATER MANAGEMENT PLAN (DAYTON)
 SCALE MAP NO. BLOCK NO.

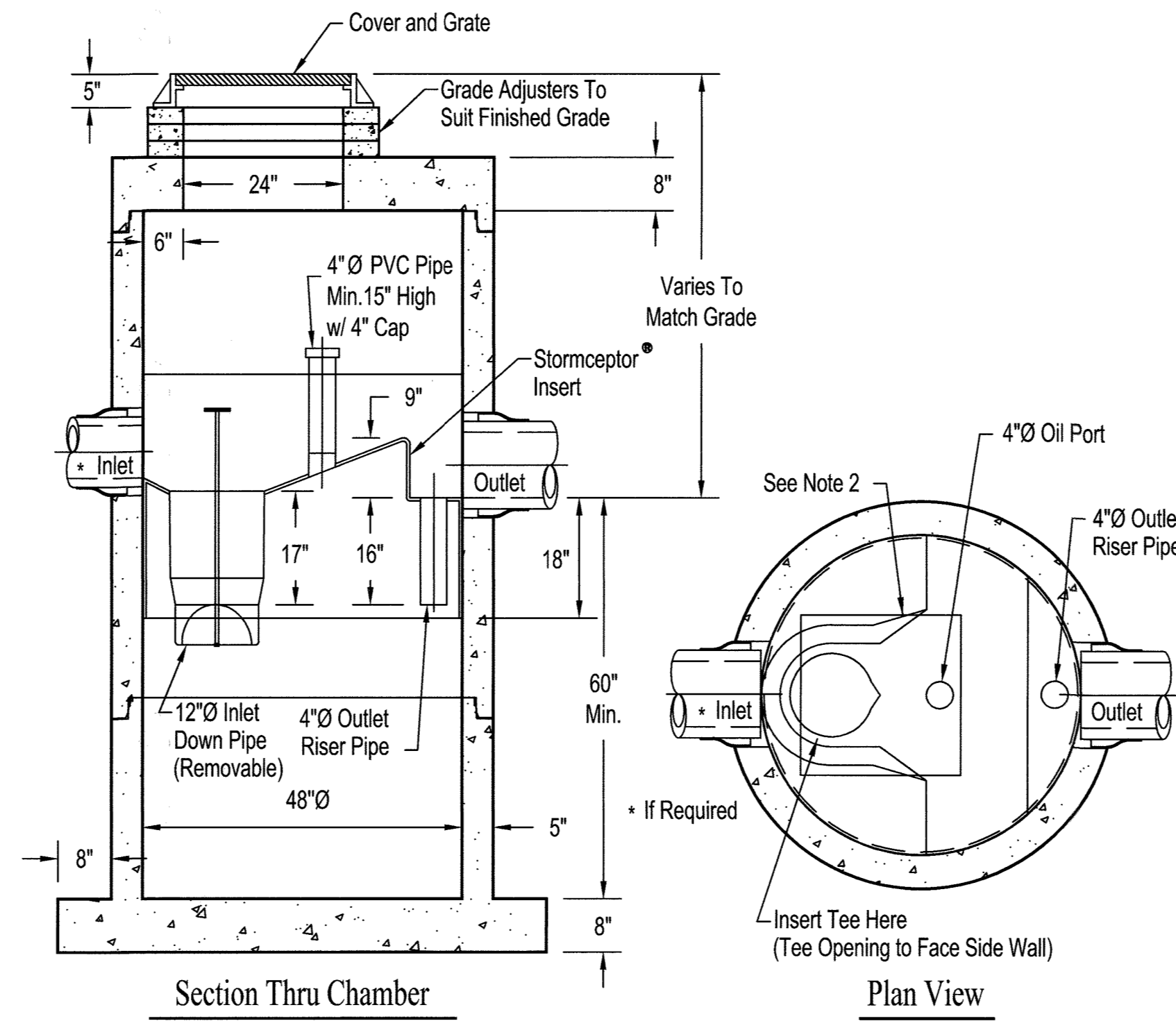
REVISED SITE DEVELOPMENT PLAN
DAYTON HIGHWAY MAINTENANCE FACILITY UPGRADED FUEL STORAGE & DISPENSING SYSTEM
 1ST & 5TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE 1"=20'
 DWG. NO. C-06

STC 2400 Precast Concrete Stormceptor®
(2400 U.S. Gallon Capacity)



STC 450i Precast Concrete Stormceptor®
(450 U.S. Gallon Capacity)



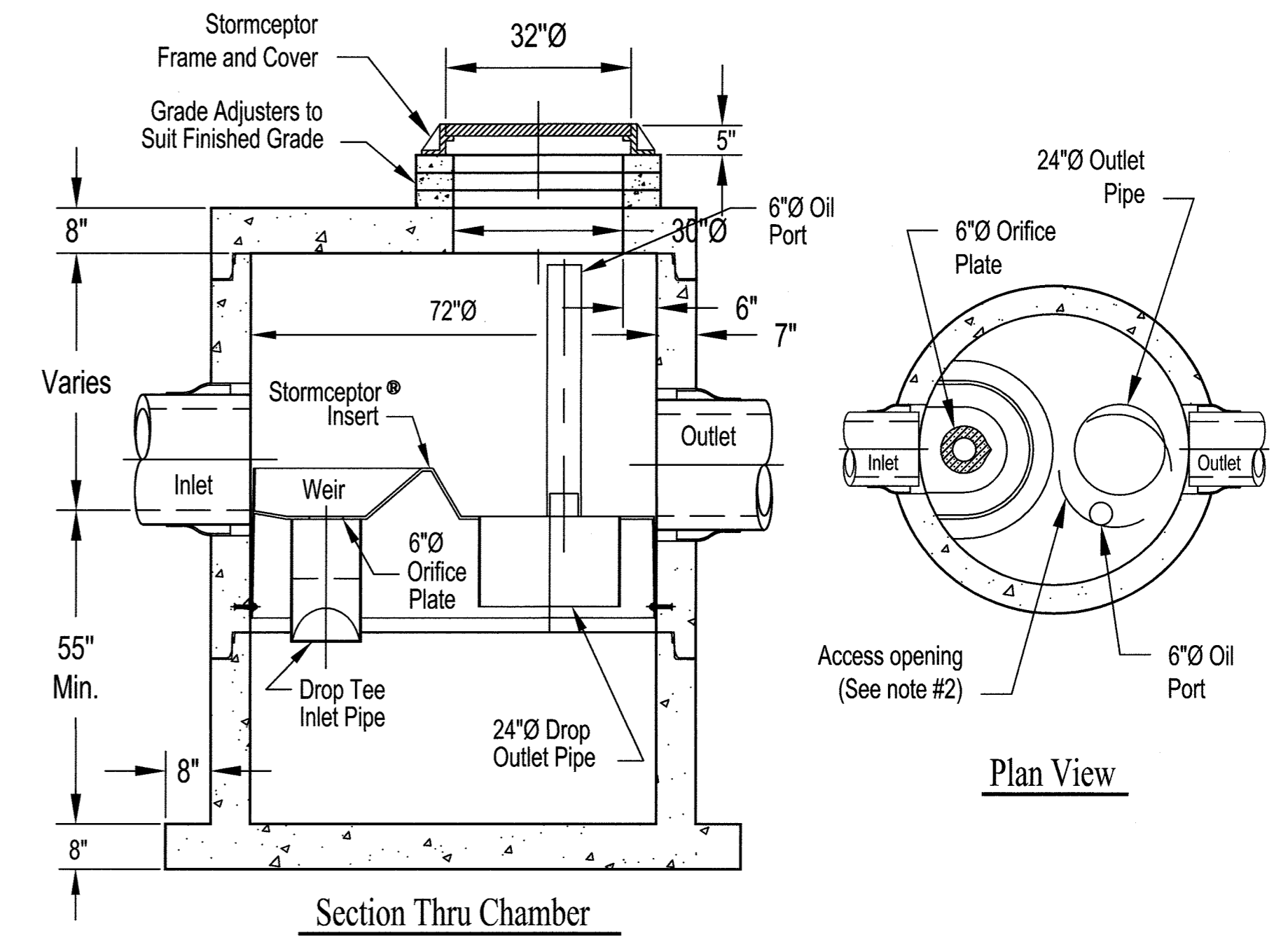
Notes:

1. The Use Of Flexible Connection is Recommended at The Inlet and Outlet Where Applicable.
2. The Cover Should be Positioned Over The Inlet Drop Pipe and The Oil Port.
3. The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.
4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.
5. For SC-1 and 2.

Rinker 031

Rinker 027

STC 900 Precast Concrete Stormceptor®
(900 U.S. Gallon Capacity)



Notes:

1. The Use Of Flexible Connection is Recommended at The Inlet and Outlet Where Applicable.
2. The Cover Should be Positioned Over The Outlet Drop Pipe and The Oil Port.
3. The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.
4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.
5. for SC-4, 5, 6 and 7.

Rinker 028

Stormceptor®

STORMCEPTOR® QUOTATION AND ORDER FORM

Quotation No: _____
Date: _____

Project Information:
Project Number: _____
Project Name: _____
Closing Date: _____
Job site Address: _____
Municipality: _____

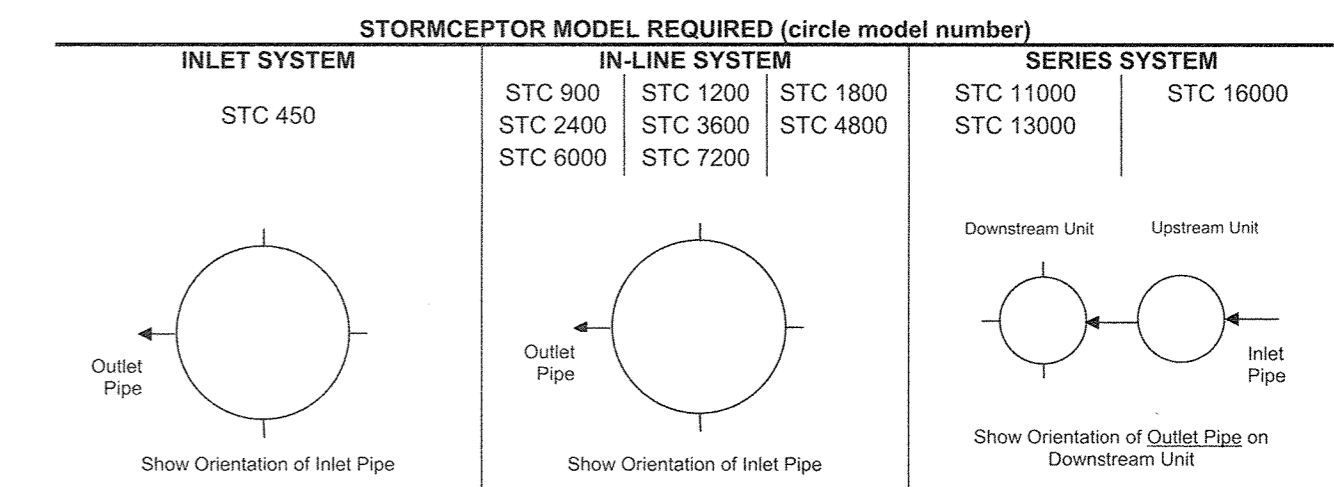
Contractor Information:
Contract Name: _____
Company: _____
Phone No: _____
Fax No: _____
E-mail: _____

Consultant Information:
Contact Name: _____
Company: _____
Phone No: _____
Fax No: _____
E-mail: _____

Owner Information (Required for Maintenance):
Contact Name: _____
Company: _____
Phone No: _____
Fax No: _____
E-mail: _____

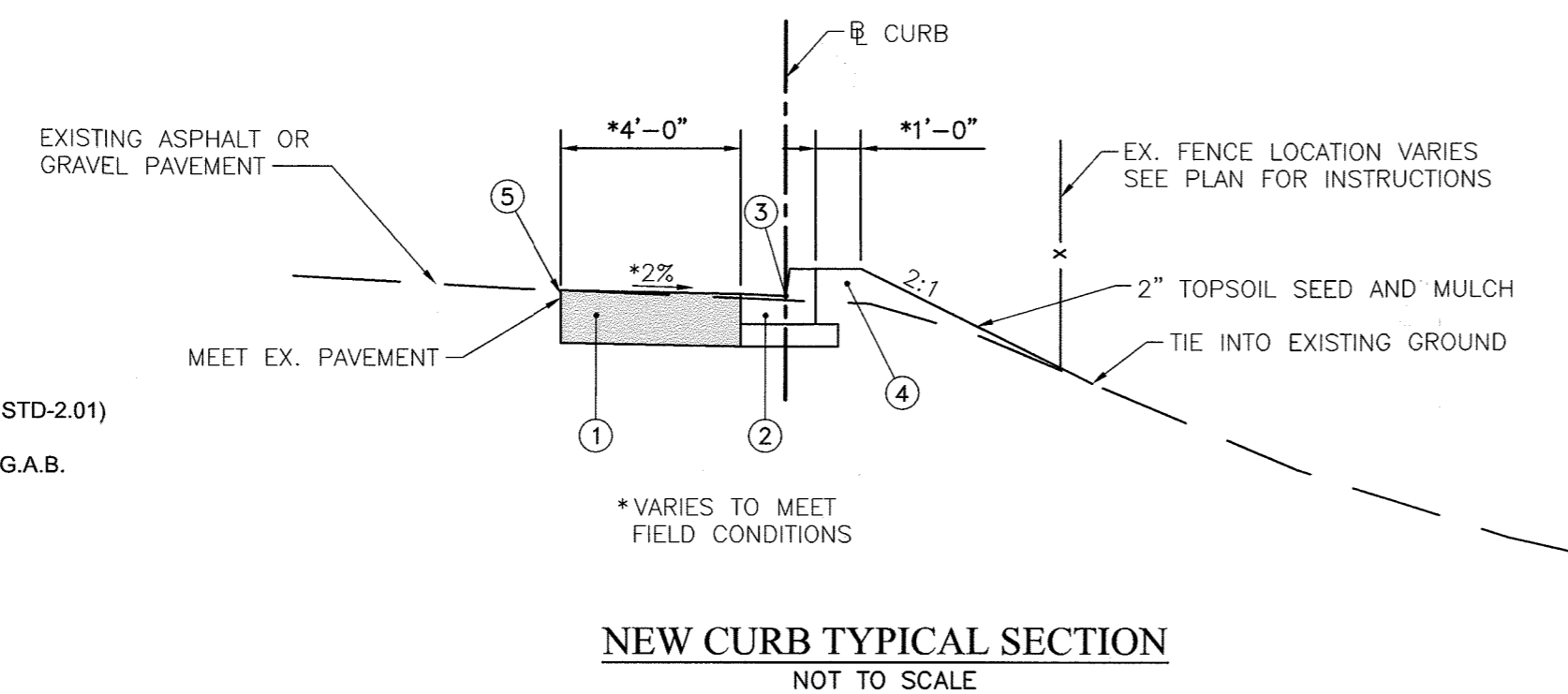
Land Use (Check one):
 Commercial Gas Station Government Industrial Military
 Street Residential Transportation Other

STORMCEPTOR INFORMATION
Structure No.: _____
Top of Grate Elev.: _____
Outlet Invert Elev.: _____
Inlet Invert Elev.: _____
Outlet Pipe Material: _____
Inlet Pipe Material: _____



Please complete the attached form and fax to your local Stormceptor representative
www.rinkerstormceptor.com

SDP SHT NO. 18 OF 20



- 1 FULL DEPTH PAVEMENT SECTION (P-4 PER STD-2.01)
- 2 7" COMBINATION CURB AND GUTTER WITH G.A.B.
- 3 SEE DE-01 FOR FLOW LINE ELEVATIONS
- 4 COMMON COMPACTED FILL
- 5 FULL DEPTH SAWCUT AS REQUIRED

NEW CURB TYPICAL SECTION
NOT TO SCALE

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD CO. HEALTH DEPARTMENT
Maura Roseman
COUNTY HEALTH OFFICER 1/14/2020 DATE

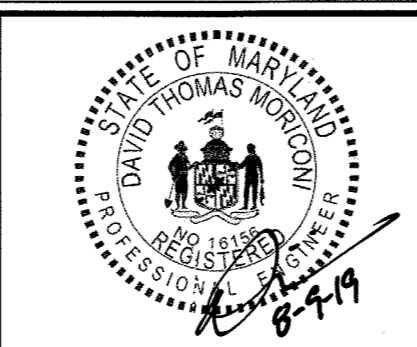
APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chad
CHIEF, DEVELOPMENT ENGINEERING DIVISION 1/6/20 DATE
Steve
CHIEF, DIVISION OF LAND DEVELOPMENT 1/18/20 DATE
Gov
DIRECTOR 1-24-2020 DATE

PROFESSIONAL CERTIFICATION
"I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16156, EXPIRATION DATE: 8/28/2020"

▲ PURPOSE: THE PURPOSE OF THIS REDLINE IS TO ADD STORMCEPTORS TO CAPTURE POTENTIAL SPILLS CONTAINING CONTAMINANTS.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Mark 8/15/19 DATE
Steve 8/16/19 DATE
CHIEF, BUREAU OF ENVIRONMENTAL SERVICES
CHIEF, BUREAU OF HIGHWAYS

AECOM

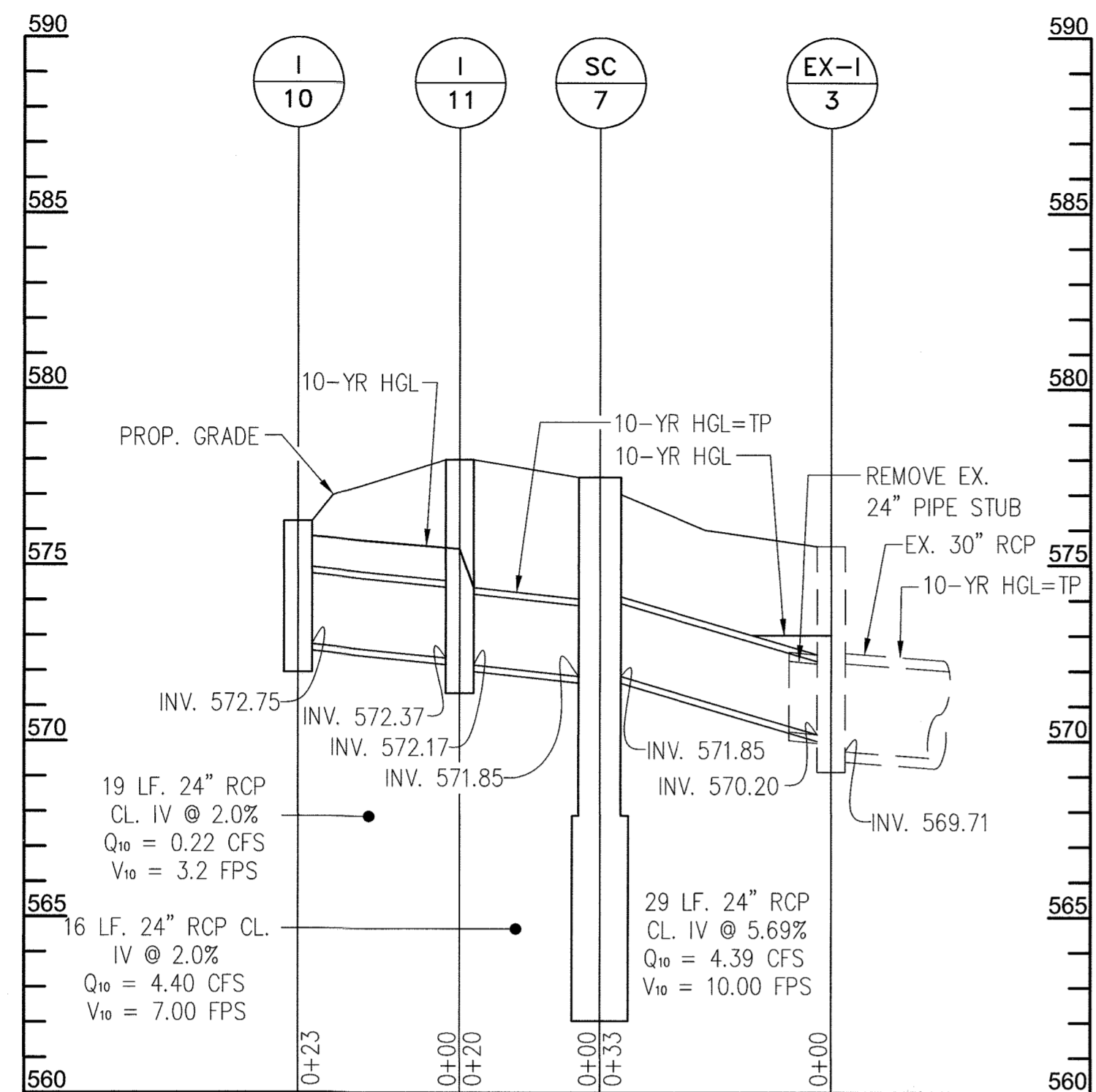


DES:	RLL		
DRN:	CDF		
CHK:	DTM		
DATE:	08/2019		
DTM BY:	NO.	NEW SHEET ADDED	08/2019
		REVISION	DATE

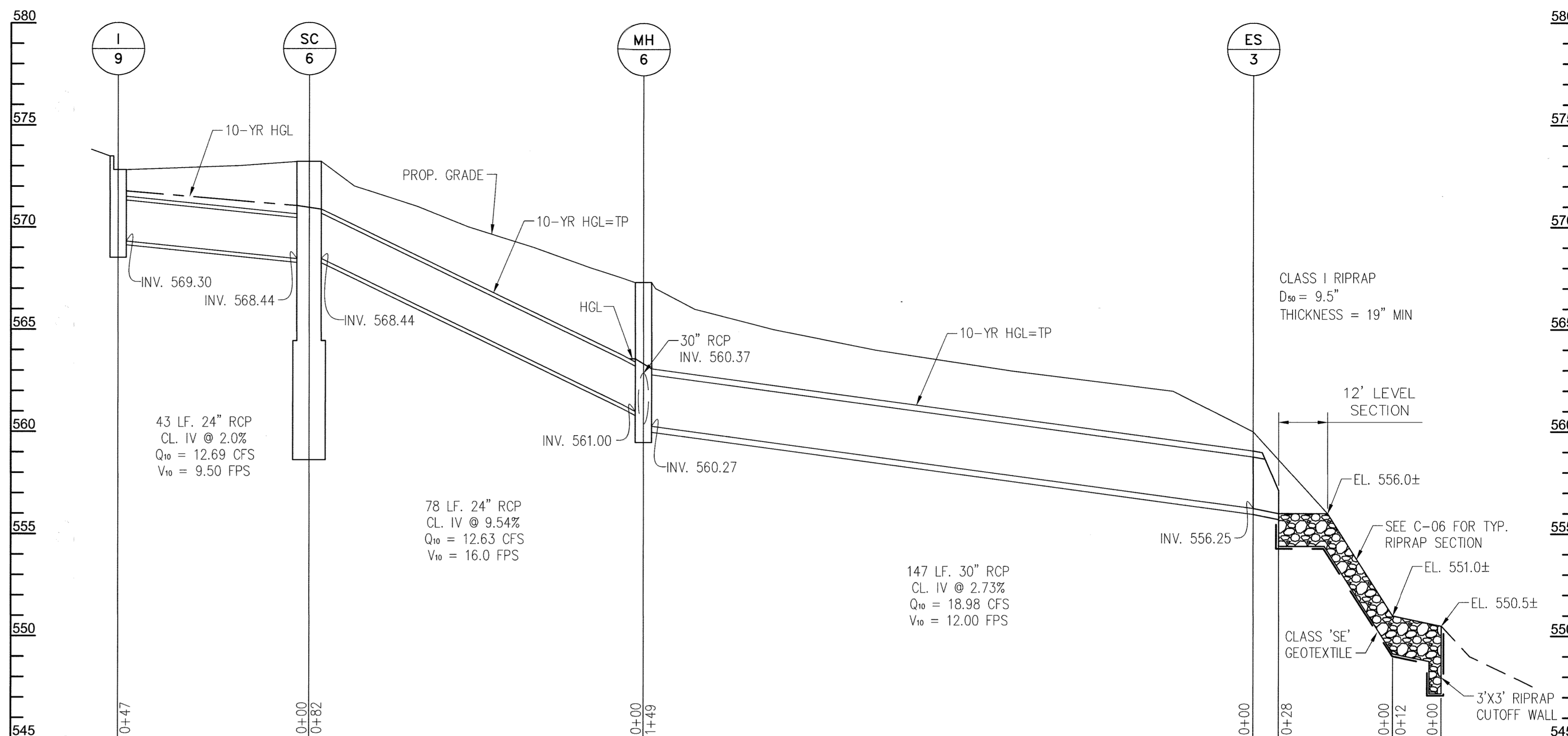
STORMCEPTOR DETAILS
SCALE MAP NO. _____ BLOCK NO. _____

DAYTON/MAYFIELD HIGHWAY MAINTENANCE FACILITY – STORMWATER MANAGEMENT
1ST & 5TH ELECTION DISTRICT – HOWARD COUNTY, MARYLAND

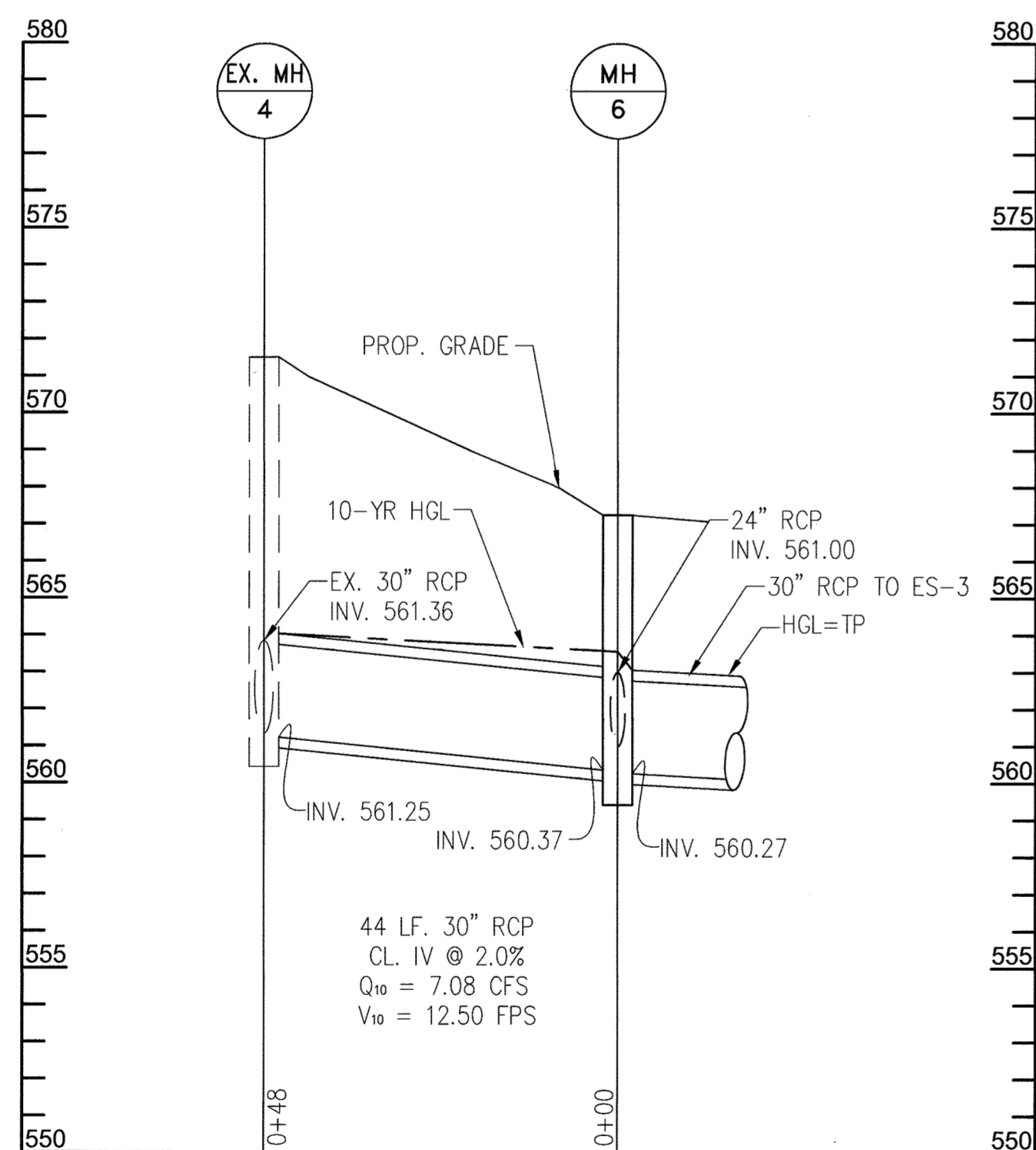
SCALE N/A
DWG NO. C-07



I-10 TO EX. I-3



I-9 TO ES-3



EX. MH-4 TO MH-6

STRUCTURE DESIGNATION	WORKPOINT				STRUCTURE TYPE	TOP OF STRUCT. ELEV.	INVERT IN	INVERT OUT	STD. NO.	REMARKS
	STATION	OFFSET	NORTHING	EASTING						
I-9	-	-	1,319,238.76	576,886.20	TYPE S COMBINATION INLET	572.80	-	569.30	D-4.26	TOP OF STRUCT. ELEV. AT FLOW LINE
I-10	-	-	1,319,298.91	577,083.90	TYPE S INLET	576.25	-	572.75	D-4.24	TOP OF STRUCT. ELEV. AT FLOW LINE
I-11	-	-	1,319,281.10	577,102.10	TYPE A-10 INLET	577.50	572.37	572.17	D-4.03	TOP OF STRUCT. ELEV. AT FLOW LINE
MH-6	-	-	1,319,343.88	576,832.83	PRECAST MANHOLE	567.25	560.37	-	G-5.13	
ES-3	-	-	1,319,302.81	576,688.59	CONCRETE END SECTION	-	-	556.25	D-5.51	
SC-6	-	-	1,319,285.10	576,892.27	STC 900 PRECAST STORMCEPTOR	573.20	568.44	568.44	STC-900	SEE DETAIL, SHEET C-07
SC-7	-	-	1,319,299.02	577,113.21	STC 900 PRECAST STORMCEPTOR	577.50	571.85	571.85	STC-900	SEE DETAIL, SHEET C-07

PIPE SCHEDULE					
FROM	TO	SIZE	TYPE	LENGTH	REMARKS
I-9	SC-6	24"	RCP	43'	
I-10	I-11	24"	RCP	19'	
I-11	SC-7	24"	RCP	16'	
SC-7	EX. I-3	24"	RCP	29'	
SC-6	MH-6	24"	RCP	78'	
MH-6	ES-3	30"	RCP	147'	
EX. MH-4	MH-6	30"	RCP	44'	

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD CO. HEALTH DEPARTMENT

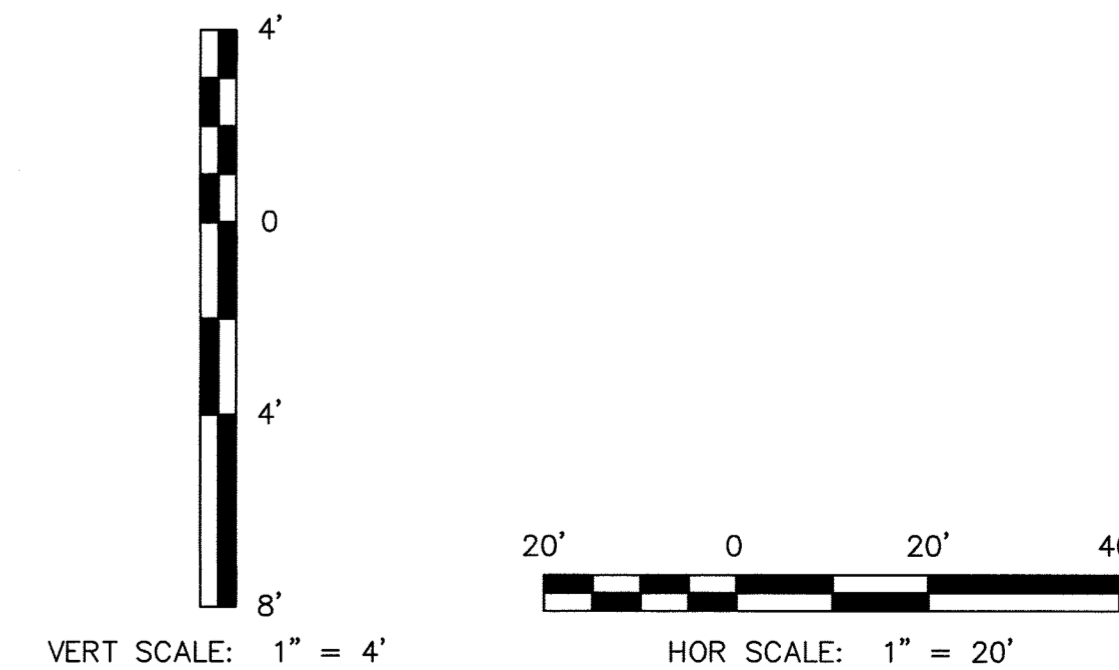
Maureen Rossum
COUNTY HEALTH OFFICER
DATE: 1/14/2020

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chad Clark
CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 1-6-20
Michael New
CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: 1/18/20
SA-GW
DIRECTOR
 DATE: 1-24-2020

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 18156
 EXPIRATION DATE: 8/28/2020

△ PURPOSE:
 THE PURPOSE OF THIS REDLINE IS TO ADD TWO (2) STORMCEPTORS TO CAPTURE POTENTIAL SPILLS CONTAINING CONTAMINANTS.



SDP SHT NO. 19 OF 20

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Michael New 8/15/19
 CHIEF, BUREAU OF ENVIRONMENTAL SERVICES

Chad Clark (seal) 8/16/19
 CHIEF, BUREAU OF HIGHWAYS



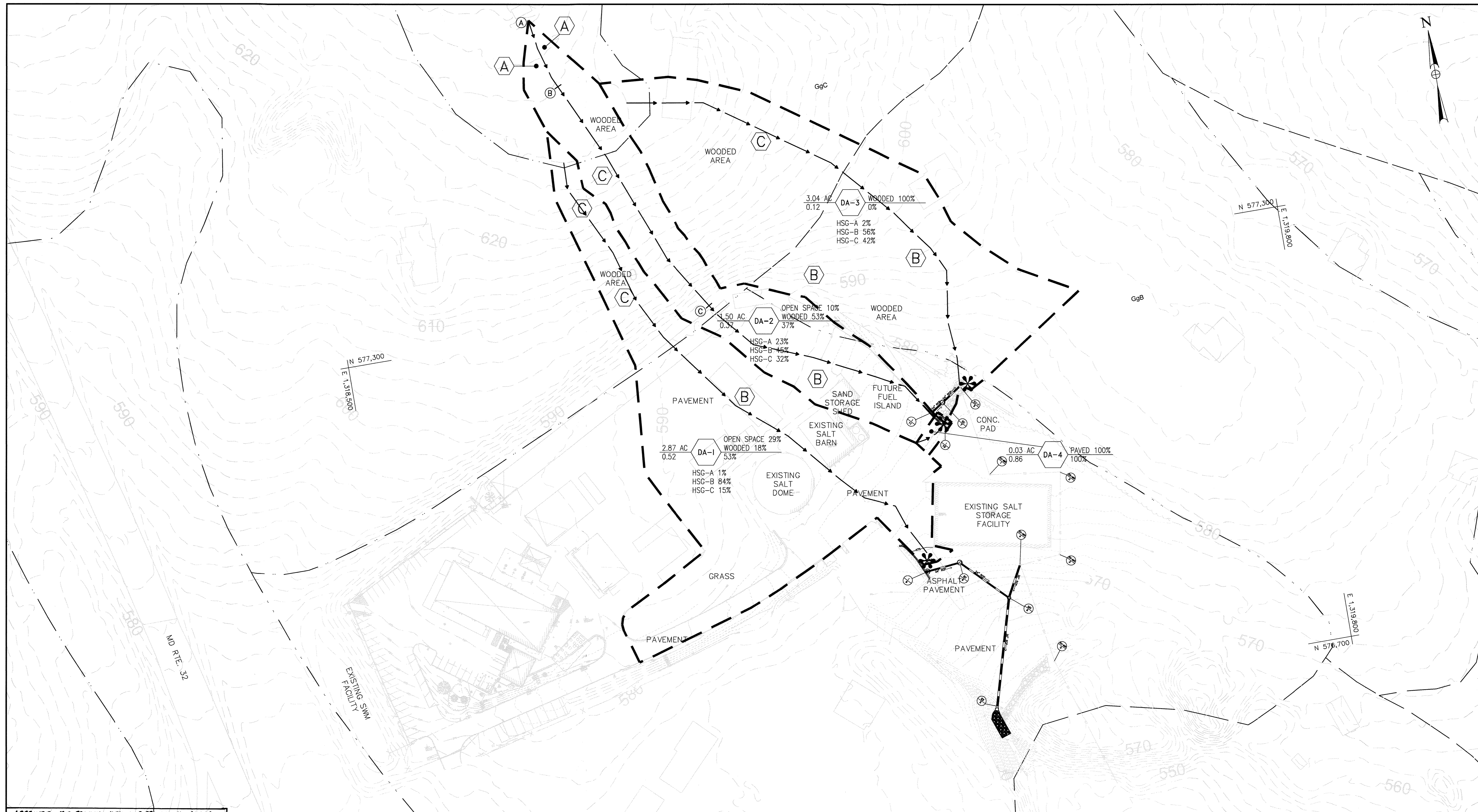
DES:	DMT		
DRN:	DMT		
CHK:	DTM		
DATE:	08/2019		
DTM BY:	NO.	NEW SHEET ADDED	08/2019
		REVISION	DATE

DRAINAGE PROFILES
(DAYTON)

REVISED SITE DEVELOPMENT PLAN
 DAYTON/MAYFIELD HIGHWAY MAINTENANCE FACILITY - STORMWATER MANAGEMENT

1ST & 5TH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 DWG NO. DP-03



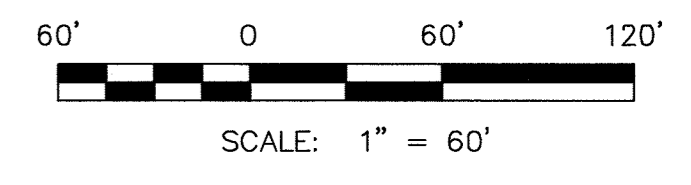
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD CO. HEALTH DEPARTMENT
 Approved for: *Maura Roszman*, COUNTY HEALTH OFFICER, DATE: 1/14/2020

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Approved: *[Signature]*, CHIEF, DEVELOPMENT ENGINEERING DIVISION, DATE: 1-6-20
 Approved: *[Signature]*, CHIEF, DIVISION OF LAND DEVELOPMENT, DATE: 1/18/20
 Approved: *[Signature]*, DIRECTOR, DATE: 1-24-2020

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16156, EXPIRATION DATE: 8/28/2020

▲ PURPOSE: THE PURPOSE OF THIS REDLINE IS TO ADD STORMCEPTORS TO CAPTURE POTENTIAL SPILLS CONTAINING CONTAMINANTS.

- LEGEND
- POINT OF INVESTIGATION (POI)
 - DRAINAGE AREA BOUNDARY
 - TIME OF CONCENTRATION PATH (TC)
 - SOILS GROUP
 - SOIL GROUP DIVISION LINE



SDP SHT NO. 20 OF 20

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

[Signature] 8/15/19, CHIEF, BUREAU OF ENVIRONMENTAL SERVICES
[Signature] 8/16/19, CHIEF, BUREAU OF HIGHWAYS



DES:	KMS		
DRN:	CDF		
CHK:	DTM		
DATE:	08/2019	DTM	▲ NEW SHEET ADDED
BY:		NO.	
		REVISION	
		DATE	08/2019

DRAINAGE AREA MAP (DAYTON)

DAYTON/MAYFIELD HIGHWAY MAINTENANCE FACILITY – STORMWATER MANAGEMENT

1ST & 5TH ELECTION DISTRICT – HOWARD COUNTY, MARYLAND

SCALE
 1"=60'
 DWG NO.
 DA-02