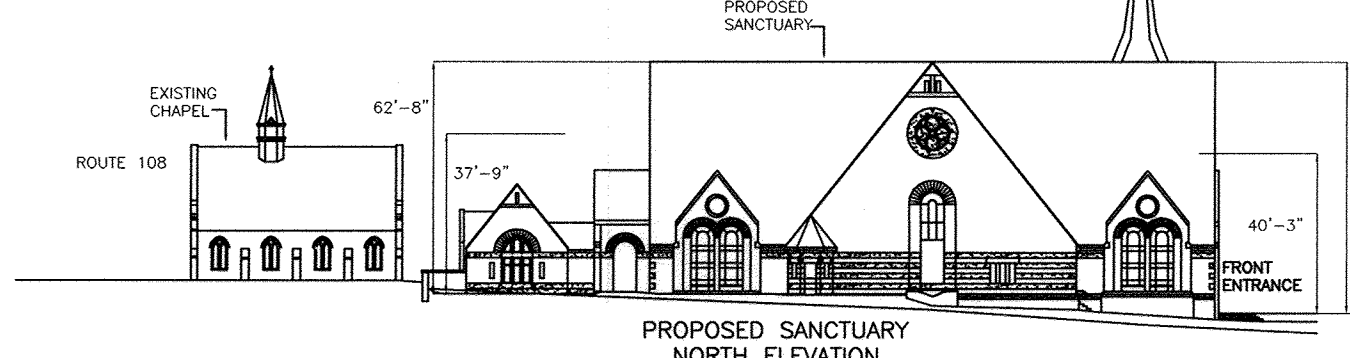
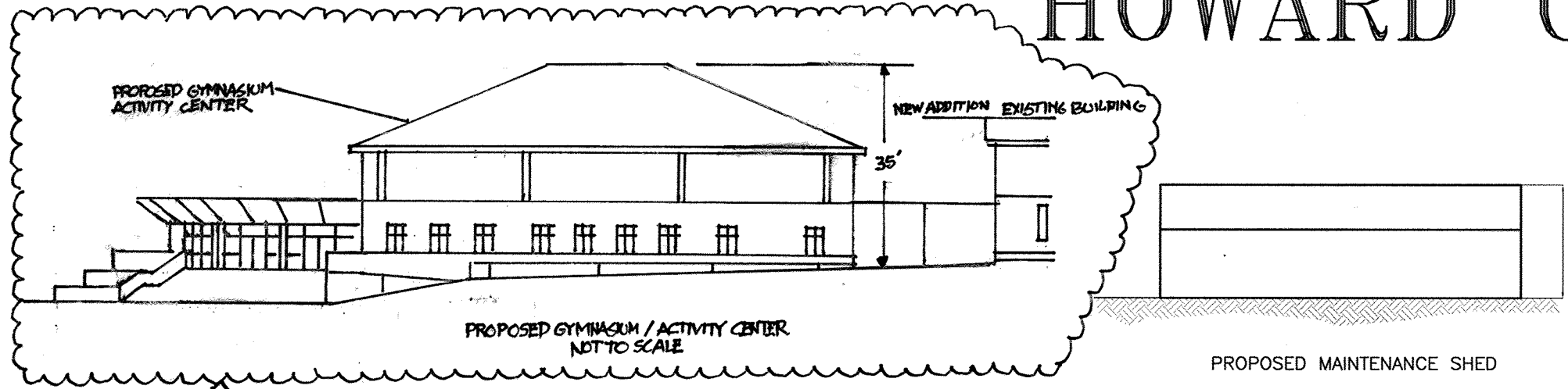


SHEET INDEX	
No.	DESCRIPTION
1	TITLE SHEET
2	DEMOLITION PLAN
3	DEMOLITION PLAN
4	DEMOLITION PLAN
5	SITE DEVELOPMENT PLAN
6	SITE DEVELOPMENT PLAN
7	GRADING AND SEDIMENT CONTROL PLAN
8	GRADING AND SEDIMENT CONTROL PLAN
9	GEOMETRY, TRAFFIC CONTROL AND STRIPING PLAN
10	GEOMETRY PLAN
11	PROPOSED CONDITIONS - SWM DRAINAGE AREA MAP
12	EXISTING CONDITIONS - SWM DRAINAGE AREA MAP
13	STORM DRAIN PROFILES
14	STORM DRAIN PROFILES
15	PROFILES
16	SEDIMENT CONTROL DETAILS
17	SEDIMENT CONTROL DETAILS
18	SEDIMENT CONTROL DETAILS & NOTES
19	STORMWATER MANAGEMENT DETAILS
20	STORMWATER MANAGEMENT DETAILS
21	DETAILS
22	BORING LOGS AND DETAILS
23	REVISED SEDIMENT CONTROL NOTES
24	FOREST CONSERVATION NOTES AND DETAILS
25	LANDSCAPE DETAILS AND SCHEDULES
26	LANDSCAPE PLAN
27	LANDSCAPE PLAN
28	FOREST CONSERVATION PLAN
29	FOREST CONSERVATION PLAN
30	FOREST STAND DEDINEATION
31	FOREST STAND DEDINEATION
32	ROAD WIDENING PLAN

NO.	DESCRIPTION
1A	OVERALL BUILDING REFERENCE PLAN
2	LAYOUT & ELEC. PLAN
3	UTILITY PROFILES & DETAILS
34	SITE DETAILS

PREVIOUS RELATED DPZ FILES:
 SDP-03-064 PAR - SANCTUARY & MAINTENANCE BUILDING
 PHII - SCHOOL EXPANSION
 PHIII - GYMNASIUM
 HO-277 FRIEST'S RESIDENCE, CHAPEL, SCHOOL

NOTE: UNDER BA-12-006C, THE NEW GYMNASIUM FOREST CONSERVATION FOR PARCEL 30 AND DEPENDENT ON THE P-1 LANDSCAPE ARE ALLOWED FOR THE REVISION. FOR ALL OTHER PROPOSED IMPROVEMENTS THE OWNER IS REQUIRED TO PREPARE A NEW SDP.



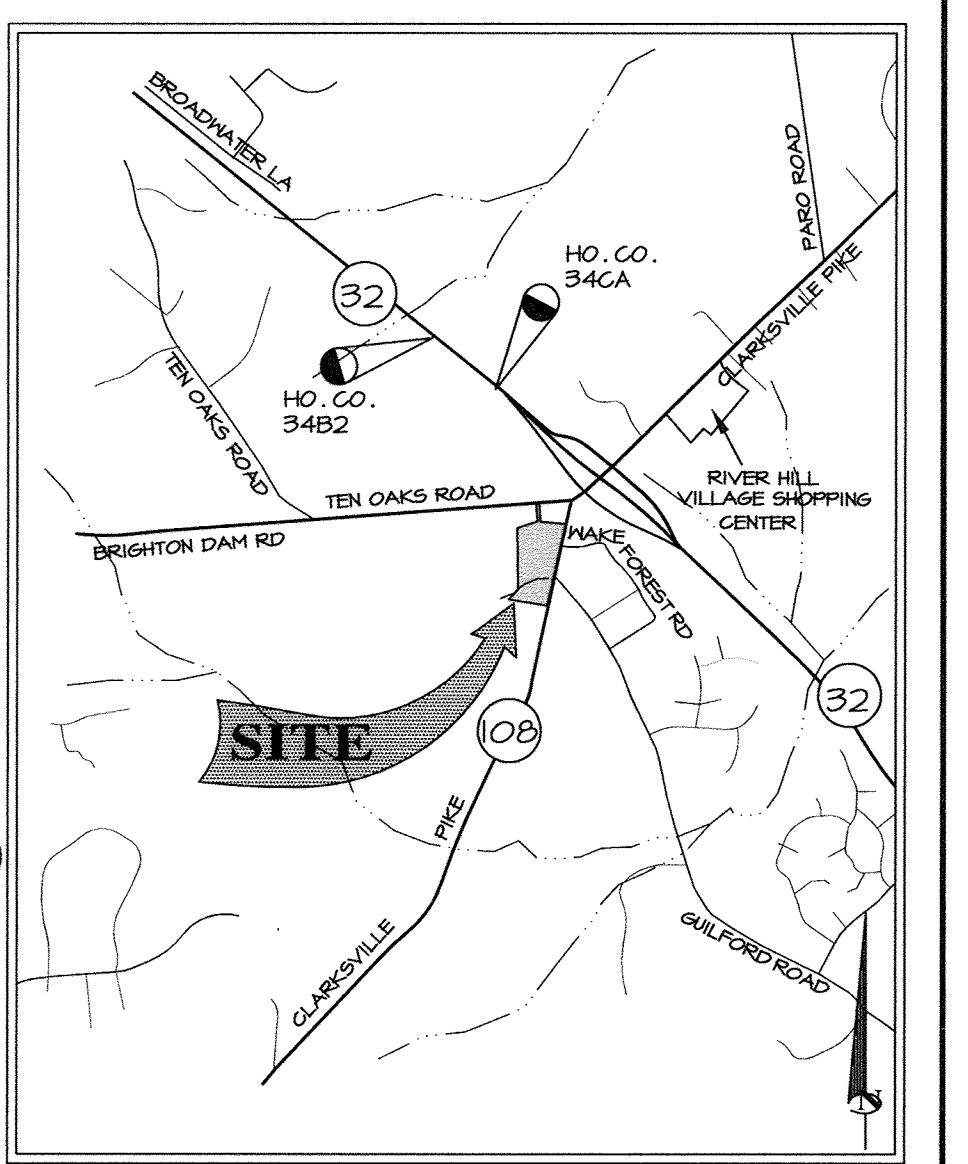
ST. LOUIS CHURCH IMPROVEMENTS PHASE 1

NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS

5th ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

GENERAL NOTES
 41. BA-18-007C - PETITION FOR CONDITIONAL USE FOR THE ADDITION OF A BELL TOWER AND SITE IMPROVEMENTS TO THE EXISTING SANCTUARY LOCATED IN AN RR-DEO ZONING DISTRICT WAS GRANTED ON JUNE 26, 2018.



BENCHMARKS
 HOWARD COUNTY SURVEY CONTROL STATION: 3482
 N 565468.218 E 1321931.520 ELEV. 560.032
 HOWARD COUNTY SURVEY CONTROL STATION: 34CA
 N 562901.116 E 1326884.894 ELEV. 560.032

SITE DATA
 RR-DEO & POR
 17.67 ACRES
 15.46 ACRES
 0.73 ACRES
 1.26 ACRES
 17.91 ACRES
 NET SITE AREA

GENERAL NOTES

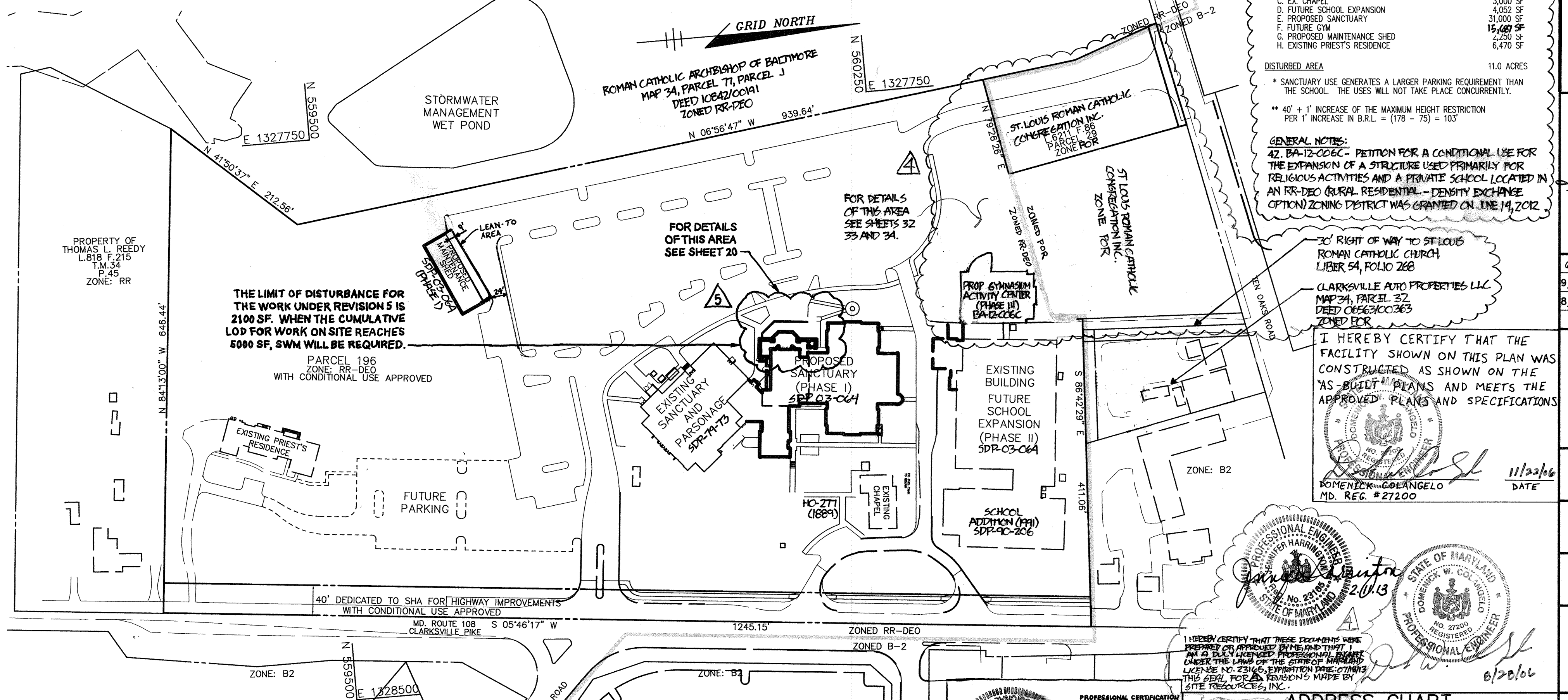
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR
- TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ALL PLAN DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM A TOPOGRAPHIC SURVEY BY GREENHORNE AND O'MARA DATED SEPTEMBER 1997, AERIAL SURVEY BY WINGS, INC AND FIELD RUN SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY RIEMER MUEGGE A DIVISION OF PHRKA JAN. 2001.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 3482 AND 34CA WERE USED FOR THIS PROJECT.
- WATER IS PUBLIC. CONTRACT NO. 44-3483
- SEWER IS PUBLIC. SEWER DRAINAGE AREA: PATAPSCO CONTRACT NO. 30-3690
- STORMWATER MANAGEMENT FOR THIS SITE IS PROVIDED BY PRIVATELY OWNED AND MAINTAINED GRASS SWALES, BIOTENTION AREAS, SAND FILTERS, AND UNDERGROUND PIPES.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL AVAILABLE 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. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
- THIS PROJECT DOES NOT IMPACT A 100-YEAR FLOODPLAIN.
- THIS PROJECT DOES NOT IMPACT ANY WETLANDS.
- THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY THE TRAFFIC GROUP INC. DATED NOV 4, 2002. APPROVAL BY HOWARD COUNTY DEVELOPMENT ENGINEERING DIVISION WAS GRANTED ON NOVEMBER 27, 2002. APPROVAL BY STATE HIGHWAY ADMINISTRATION WAS GRANTED ON NOVEMBER 27, 2002.
- A NOISE STUDY IS NOT REQUIRED.
- THE GEOTECHNICAL STUDY FOR STORMWATER MANAGEMENT WAS PREPARED BY ECS, LTD DATED MARCH 2001.
- THE BOUNDARY SURVEY FOR THIS PROJECT WAS PREPARED BY RIEMER MUEGGE A DIVISION OF PHRKA. DATED JANUARY, 2000.
- SUBJECT PROPERTY ZONED RR-DEO (PARCEL 196) AND B-2 (PARCEL 29) PER 10-18-93 COMPREHENSIVE ZONING PLAN.
- ALL ELEVATIONS SHOWN ARE BASED ON THE U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
- SEE DEPARTMENT OF PLANNING AND ZONING FILE NO'S. 979C, BA-89-37E & V. BA-90-45E, BA-98-05E, BA-01-31C, WP-01-64, SDP-79-73, SDP-90-206, WP-03-80, BA-04-11C.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO WITHIN 6" OF FINISHED GRADE.
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, LATEST AMENDMENTS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF AASHTO T160.
- BOARD OF APPEALS CASE NO. 01-31-C, A CONDITIONAL USE FOR THE ENLARGEMENT OF AN EXISTING RELIGIOUS FACILITY AND PRIVATE SCHOOL IN AN RR-DEO (RURAL RESIDENTIAL - DENSITY EXCHANGE OPTION OVERLAY) ZONING DISTRICT WAS GRANTED ON DECEMBER 4, 2001 SUBJECT TO THE FOLLOWING CONDITIONS OF APPROVAL: (SEE ALSO BA-04-11C)

GENERAL NOTES
 32. ALL LIGHTING TO BE DIRECTED/REFLECTED AWAY FROM ADJACENT PUBLIC ROADS AND RESIDENTIALLY ZONED PROPERTIES, AND BE IN ACCORDANCE WITH SECTION 134 OF THE HOWARD COUNTY ZONING REGULATIONS.

- THE TOTAL FOREST CONSERVATION OBLIGATION AMOUNT IS 2.65 ACRES. THE FOREST CONSERVATION OBLIGATION FOR THE PROPOSED SITE DEVELOPMENT HAS BEEN MET BY PLACING 0.74 AC OF ON-SITE FOREST IN FOREST RETENTION EASEMENTS AND PROVIDING 1.91 AC OF AFFORESTATION, WITH 0.67 ACRES AFFORESTATION PLANTING PROVIDED ON-SITE AND 1.24 ACRES OF ADDITIONAL FOREST CONSERVATION OBLIGATION TO BE PAID AS A FEE-IN-LIEU. SURETY IN THE AMOUNT OF \$14,381.50 (28,763 SF x \$0.50) HAS BEEN POSTED FOR THE REFORESTATION (AFFORESTATION) EASEMENTS AND SURETY IN THE AMOUNT OF \$6,448.40 (32,232 SF x \$0.20) HAS BEEN POSTED FOR THE FOREST RETENTION, FOR A TOTAL SURETY IN THE AMOUNT OF \$20,830.00. ADDITIONAL FOREST CONSERVATION OBLIGATION (LOAN) WILL BE MET BY PAYMENT OF A FEE-IN-LIEU IN THE AMOUNT OF \$27,007.00 (54,014 SF x \$0.50). THE UPDATED FOREST CONSERVATION IS SHOWN ON SHEETS 23 & 34 AND REQUIRES AN ADDITIONAL \$1,100.00 PUBLIC USE FEE.
- WP-01-64 A REQUEST TO WAIVE SECTION 16.116(C)(2)(I) WAS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:
 CONDITION NO. 3. THE WAIVER PETITION APPROVAL PERTAINS ONLY TO THE LIMITS OF DISTURBANCE WITHIN THE STREAM AND BUFFER AREA AS SHOWN ON THE WAIVER PLAN EXHIBIT AND AS APPROVED BY THE HOWARD COUNTY BOARD OF APPEALS ON THE PETITIONER'S EXHIBIT FOR BA CASE NO. 01-31-C WHICH IS APPROXIMATELY 17,000 SQUARE FEET. BEST MANAGEMENT PRACTICES FOR WORKING WITHIN THE STREAM AND BUFFER AREA SHALL BE USED BY THE CONTRACTORS WHEN EXTENDING THE CULTURE PIPE AND CONSTRUCTING THE PROPOSED PARKING LOT.
 CONDITION NO. 2. ALL GRADING AND CONSTRUCTION DISTURBANCES WITHIN THE STREAM AND BUFFER AREA ARE SUBJECT TO OBTAINING ALL NECESSARY WATER QUALITY CERTIFICATES AND PERMITS FROM THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, THE DEPARTMENT OF NATURAL RESOURCES AND/OR U.S. ARMY CORP OF ENGINEERS.
 CONDITION NO. 3. COMPLIANCE WITH THE COMMENTS FROM THE SOIL CONSERVATION SERVICE DATED MARCH 21, 2001, THE HEALTH DEPARTMENT DATED FEBRUARY 8, 2001 AND THE STATE HIGHWAY ADMINISTRATION.
 CONDITION NO. 4. SUBMISSION OF SITE DEVELOPMENT PLAN FOR REVIEW BY SRC WITHIN ONE YEAR OF THIS WAIVER APPROVAL.
 CONDITION NO. 5. THE WAIVER PETITION IS SUBJECT TO COMPLIANCE WITH THE CONDITIONS OF APPROVAL FROM THE HOWARD COUNTY BOARD OF APPEALS CASE NO. 01-31-C CONCERNING EXPANSION OF THE CONDITIONAL USE FOR THE CONDITION NO. 6. A STREAM BANK RESTORATION PLANTING PLAN SHALL BE PROVIDED AND FROM DETAILS SHOWN ON THE SITE DEVELOPMENT PLAN FOR THE PARKING LOT ADDITION.

GENERAL NOTES

- COMPLIANCE WITH HEALTH DEPARTMENT COMMENTS DATED JANUARY 23, 2003.
- VEHICULAR INGRESS/EGRESS IS RESTRICTED FOR THIS PROPERTY ALONG TEN OAKS ROAD, EXCEPT AT THE PROPOSED ENTRANCE LOCATION AS SHOWN ON THE WAIVER PETITION PLAN EXHIBIT AND SDP-03-64 WITHIN PARCEL NO. 29, AND FOR THE EXISTING SHARED 30' WIDE DEEDED RIGHT-OF-WAY ACCESS POINT.
- THE APPLICANT SHALL PROVIDE REQUIRED PERIMETER LANDSCAPING WITHIN THE PROPOSED DRIVEWAY AND THE PROJECT BOUNDARY WITH THE ADJOINING PALMER PROPERTY (PARCEL NO. 77) AS SHOWN AND APPROVED ON SITE DEVELOPMENT PLAN, SDP-03-64. HOWEVER, THIS DIVISION RECOMMENDS THAT THE APPLICANT SHIFT THE DRIVEWAY LOCATION FURTHER EAST, IF POSSIBLE, TO ALLOW ADDITIONAL SPACE FOR THE PERIMETER LANDSCAPE PLANTING OUTSIDE OF THE DRAINAGE SWALE.
- BA-04-11C - PETITION FOR A CONDITIONAL USE FOR THE EXPANSION OF A STRUCTURE USED PRIMARILY FOR RELIGIOUS ACTIVITIES AND A PRIVATE SCHOOL LOCATED IN AN RR-DEO (RURAL RESIDENTIAL-DENSITY EXCHANGE OPTION) ZONING DISTRICT WAS GRANTED ON AUGUST 2, 2004. PROVIDED; HOWEVER, THAT THE CONDITIONAL USE WILL APPLY ONLY TO THE USES AND STRUCTURES AS DESCRIBED IN THE PETITION AND CONDITIONAL USE PLAN SUBMITTED, AS AMENDED, AND NOT TO ANY OTHER ACTIVITIES, USES, STRUCTURES, OR ADDITIONS ON THE PROPERTY AND SUBJECT TO THE FOLLOWING CONDITIONS:
 1. PHASE II OF THE DEVELOPMENT WILL BE SUBSTANTIALLY COMPLETED WITHIN SIX (6) YEARS OF THE DATE OF THE ISSUANCE OF THIS DECISION AND ORDER.
 2. PHASE III OF THE DEVELOPMENT WILL BE SUBSTANTIALLY COMPLETED WITHIN EIGHT (8) YEARS OF THE DATE OF THE ISSUANCE OF THIS DECISION AND ORDER.



- CONDITION NO. 1. THE CONDITIONAL USE SHALL APPLY TO THE PROPOSED ENLARGEMENTS AND SITE REVISIONS TO THE EXISTING FACILITY AS DESCRIBED IN THE PETITION AND AS DEPICED ON THE CONDITIONAL USE PLAN FOR ST. LOUIS CHURCH SUBMITTED MAY 16, 2001, WITH A REVISION TO THE PROPOSED PLAN TO INCREASE THE MAIN SANCTUARY SEATING FROM 1250 SEATS TO 1350 SEATS, AND NOT TO ANY OTHER ACTIVITIES, USES, STRUCTURES, OR ADDITIONS ON THE PROPERTY.
- CONDITION NO. 2. THE PHASING PLAN FOR THE CONSTRUCTION OF THE IMPROVEMENTS WAS APPROVED AS FOLLOWS:
 a. PHASE I, THE CONSTRUCTION OF THE PROPOSED SANCTUARY, PARKING LOTS, MAINTENANCE SHED, ASSOCIATED WALKS/DRIVES, AND STORM WATER MANAGEMENT FACILITIES SHALL COMMENCE WITHIN TWO YEARS OF THE APPROVAL DATE.
 b. PHASE II, THE PROPOSED 2 STORY SCHOOL ADDITION SHALL COMMENCE WITHIN FIVE YEARS OF THE APPROVAL DATE.
 c. PHASE III, THE PROPOSED GYMNASIUM CONSTRUCTION SHALL COMMENCE WITHIN SEVEN YEARS OF THE APPROVAL DATE.
- CONDITION NO. 3. THE PETITIONER SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND COUNTY LAWS AND REGULATIONS
- THERE ARE NO CEMETARIES ON THE SUBJECT PROPERTY.
- THE DEED OF CONSOLIDATION AND MERGER DATED MAY 4, 2001 FOR INCORPORATION OF PARCEL 44 INTO PARCEL 196 WAS RECORDED IN THE HOWARD COUNTY LAND RECORDS UNDER L5473 F.0086.
- EXISTING PRIEST'S RESIDENCE IS USED AS A RESIDENCE AS WELL AS FOR CONSULTATIONS AND MEETINGS WITH MEMBERS AND/OR AFFILIATES OF ST. LOUIS CHURCH.
- NO CLEARING, GRADING OR CONSTRUCTION IS ALLOWED WITHIN THE 50' OR 75' STREAM BUFFER, EXCEPT AS APPROVED BY DPZ PER WP-01-64.
- THIS PROJECT IS SUBJECT TO THE FIFTH EDITION OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
- ALL PROPOSED WATER AND SEWER LINES SHOWN ON THIS PLAN ARE TO BE CONSTRUCTED UNDER A SEPARATE CONTRACT. REFER TO SEPARATE DRAWINGS BY PATTON HARRIS RUST AND ASSOCIATES.

BENCHMARKS
 HOWARD COUNTY SURVEY CONTROL STATION: 3482
 N 565468.218 E 1321931.520 ELEV. 560.032
 HOWARD COUNTY SURVEY CONTROL STATION: 34CA
 N 562901.116 E 1326884.894 ELEV. 560.032

SITE DATA
 RR-DEO & POR
 17.67 ACRES
 15.46 ACRES
 0.73 ACRES
 1.26 ACRES
 17.91 ACRES
 NET SITE AREA

RELIGIOUS FACILITY AND PRIVATE SCHOOL
 RELIGIOUS FACILITY: PARCEL 196 (SANCTUARY)
 ACTIVITY CENTER: PARCEL 29 (GYMNASIUM)
 AGRICULTURAL FIELD (WEST)
 PRIVATE RESIDENCE (SOUTH)

362 SPACES
 1 SPACE PER 3 SEATS = 350 SPACES
 2 SPACES
 352 SPACES
 354 SPACES

MAX. ALLOWED
 25'
 143'
 40'
 25'

4.91 AC (25% OF SITE AREA) 111-TI-AC

VICINITY MAP
 SCALE: 1" = 2000'

NOTE: PARKING REQUIREMENTS ARE BASED ON THE GREATER NUMBER OF SEATS IN THE SANCTUARY OR THE GYMNASIUM CENTER. THE SANCTUARY HAS 1020 SEATS COMPARED TO 600 SEATS IN THE GYMNASIUM CENTER. THEREFORE, AT ONE SPACE PER THREE SEATS, 340 SPACES ARE REQUIRED. THERE ARE 362 SPACES PROVIDED ON SITE INCLUDING HANDICAPPED SPACES.

PARKING EXCEEDS THE PROVIDED SPACES. PARKING IS PROVIDED ON PARCEL J OWNED BY THE CHURCH. THE PARKING OPERATIONS DURING THESE EVENTS ARE MANAGED BY PARKING ATTENDANTS AND TRAFFIC USES REMAIN ACCESSIBLE FOR EMERGENCY VEHICLES.

DATE	NO.	REVISION
11/2/12	1	BELL TOWER ADDITION
11/2/12	2	ADDITION OF NEW GYMNASIUM / ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING

AS-BUILT CERTIFICATION

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 DOMENICK W. COLANGELO #27200
 DATE: 11/2/16

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DIRECTOR: *Mark A. Coughlin* 1/9/16
 CHIEF, ENGINEERING DIVISION: *Shelley K. ...* 12/28/15
 CHIEF, DIVISION OF LAND DEVELOPMENT: *Christina ...* 1/3/16

OWNER / DEVELOPER
 MOST REVEREND WILLIAM H. KEELER
 ARCHBISHOP OF BALTIMORE
 P. O. BOX 155, SAINT LOUIS CHURCH
 ROUTES 108 & 32
 CLARKSVILLE, MD 21029
 PHONE: 410-531-6040
 C/O MONSIGNOR JOSEPH L. LUCA

PROJECT: ST. LOUIS CHURCH IMPROVEMENTS PHASE 1, II, & III
 NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS
 12500 MD ROUTE 108

AREA: PARCELS 196, 29 AND 30 TAX MAP 34
 5th ELECTION DISTRICT ZONED RR-DEO
 CLARKSVILLE
 HOWARD COUNTY, MARYLAND 21029

TITLE: REVISED TITLE SHEET

Patton Harris Rust & Associates, PC
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

DRAWING FILE: REVISED SDP_4405SDP01.DWG
 DESIGNED BY: A.C.R.
 DRAWN BY: M.A.D.
 PROJECT NO: 00370
 DATE: DECEMBER 8, 2005
 SCALE: 1" = 100'
 DRAWING NO. 1 OF 35

GENERAL NOTES:
 42. BA-12-006C - PETITION FOR A CONDITIONAL USE FOR THE EXPANSION OF A STRUCTURE USED PRIMARILY FOR RELIGIOUS ACTIVITIES AND A PRIVATE SCHOOL LOCATED IN AN RR-DEO (RURAL RESIDENTIAL - DENSITY EXCHANGE OPTION) ZONING DISTRICT WAS GRANTED ON JUNE 14, 2012.

30' RIGHT OF WAY TO ST. LOUIS ROMAN CATHOLIC CHURCH LIBER 54, ROLL 268

CLARKSVILLE AUTO PROPERTIES LLC
 MAP 34, PARCEL 71, PARCEL J
 ZONED RR-DEO

I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE 'AS-BUILT' PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS

DOMENICK W. COLANGELO
 MD. REG. # 27200
 DATE: 11/2/16

ADDRESS CHART

PARCEL	STREET ADDRESS
29 AND 196	12500 MD ROUTE 108

ST. LOUIS CHURCH
 29 AND 196 & 30
 TAX MAP NO. 34
 ELECT. DIST. 5TH
 CENSUS TRACT: 6051.01

BELL TOWER RELOCATION
 DEED OF MERGER AND CONSOLIDATION RECORDED ON 3/8/2013

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE RECORDS 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. 27200. EXPIRATION DATE: 12/31/16. THIS AGREEMENT IS REVOCABLE AT ANY TIME BY THE ENGINEER.

DATE	NO	REVISION
4.26.2013	6	MODIFICATIONS TO SERVICE AREA

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	LAMPS (NOTE 1)	INPUT VOLTAGE (NOTE 2)	MOUNTING (NOTES 3 & 4)	DESCRIPTION	CATALOG NO.	NOTES/COMMENTS
OA	LED 4000K	277	AS NOTED ON PLANS	LED WALL PACK WITH RUGGED DIE-CAST SINGLE PIECE ALUMINUM HOUSING, MOLDED ACRYLIC LENSES, ONE LIGHT ENGINE, NEMA TYPE III DISTRIBUTION AND FINISH AS SELECTED BY ARCHITECT. IT LISTED AND LABELED, "SUITABLE FOR WET LOCATIONS".	LITHONIA C6X4 LED-I-30B950/40K-SR3-MVOLT-1 (COLOR AS SELECTED BY ARCHITECT)	
OB	(1) ITEM METAL HALIDE	277	10' x 4" CAST IRON POLE	SEMI-CUT-OFF TYPE SITE LUMINAIRE WITH CAST ALUMINUM BASE/BALLAST HOUSING AND FINIAL, HORIZONTAL LAMP INJECTION MOLDED REFRACTIVE CLEAR ACRYLIC GLOBE BASE, CLEAR ACRYLIC TOP, BLACK POLYESTER POWDER COAT FINISH AND NEMA TYPE V DISTRIBUTION. IT LISTED AND LABELED, "SUITABLE FOR WET LOCATIONS". POLE: ROCKFORD SERIES CAST IRON POLE WITH 16" OCTAGONAL TAPER BASE AND BLACK POLYESTER POWDER COAT FINISH. POLE HEIGHT, BASE, LUMINAIRE, AND FINISH SHALL MATCH EXISTING ANTIQUE POLE FIXTURES ON SITE. VERIFY EXISTING ANTIQUE POLE FIXTURE REQUIREMENTS PRIOR TO ORDERING OF FIXTURES.	ANTIQUE STREET LAMPS DS4-K-ITEM MED-ARF-SR3-TB4-ANEK POLE ROCKFORD SERIES P1 RF16-1IE-ANEK	

LEGEND

- PROPERTY LINE
- EXISTING TREELINE
- EXISTING FOREST BUFFER
- EXISTING TREES
- EXISTING WALK
- EXISTING ROAD
- EXISTING CURB
- EXISTING STORM DRAIN
- EXISTING WATER
- EXISTING SANITARY SEWER
- EXISTING GAS
- EXISTING TELEPHONE
- EXISTING ELECTRIC
- EXISTING OVERHEAD ELECTRIC
- EXISTING LIGHTING
- EXISTING FENCE
- EXISTING BUILDING
- PROPOSED WALK
- PROPOSED INTERMEDIATE DUTY BITUMINOUS PAVING
- PROPOSED HEAVY DUTY BITUMINOUS PAVING
- PROPOSED HEAVY DUTY CONCRETE
- PROPOSED BUILDING
- PROPOSED STORM DRAIN
- PROPOSED WATER
- PROPOSED SANITARY SEWER
- EXISTING FOREST RETENTION AREA
- EXISTING AFFORESTATION AREA

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

David A. Wyle 2/15/12
DIRECTOR DATE

Chad Clendenen 2-14-13
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Neil Shelton 2-19-13
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

11/2/2012 5 REVERSE 6" WATER LINE TO 4"
11/8/2012 4 ADDITION OF NEW GYMNASIUM / ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING

OWNER / DEVELOPER
MOST REVEREND WILLIAM H. KEELER
ARCHBISHOP OF BALTIMORE
P. O. BOX 155, SAINT LOUIS CHURCH
ROUTES 108 & 32
CLARKSVILLE, MD 21029
PHONE: 410-531-6040
C/O MONSIGNOR JOSEPH L. LUCA

PROJECT
ST. LOUIS CHURCH
IMPROVEMENTS PHASE 1 I, II & III
NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS
72200 MD ROUTE 199

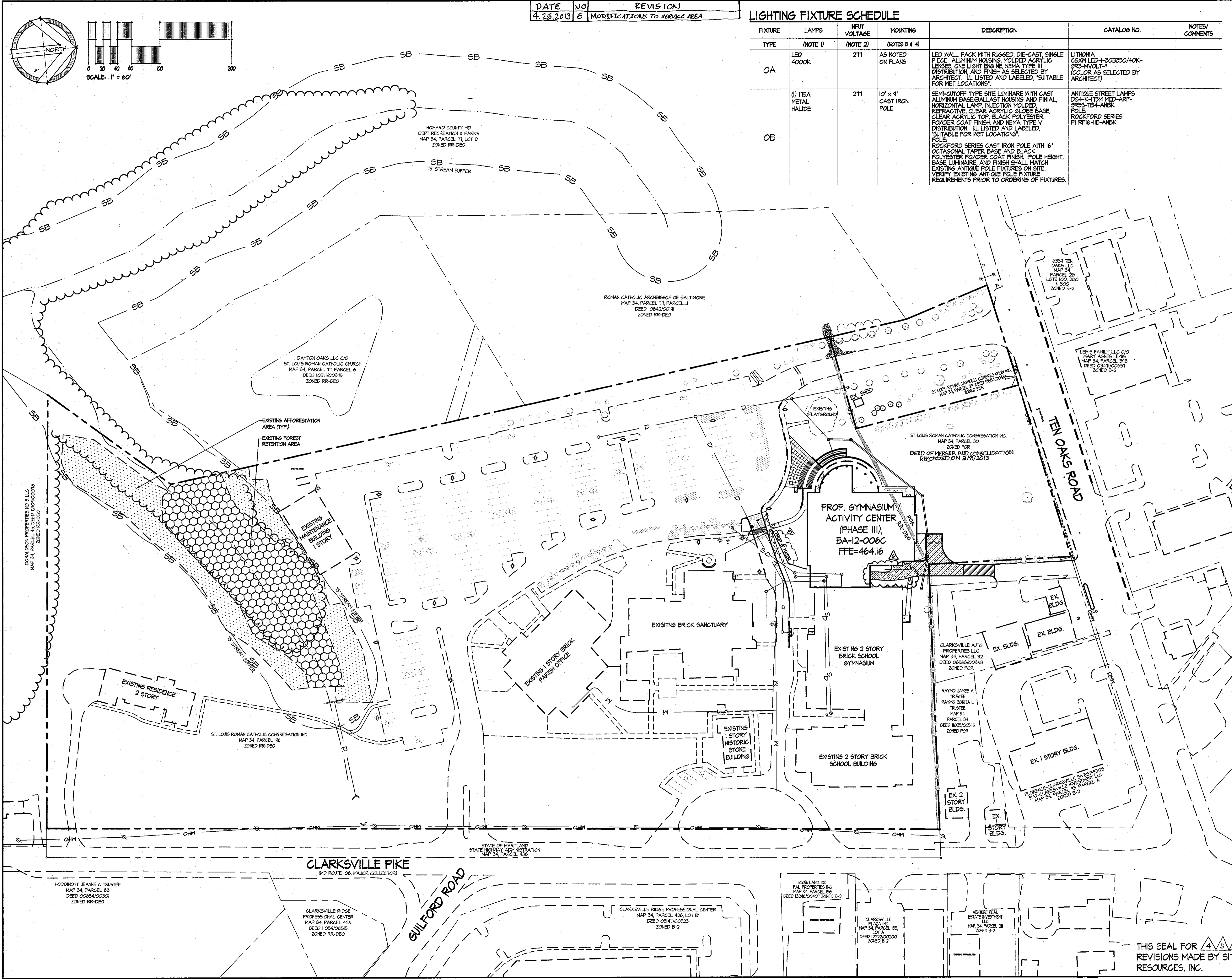
AREA
PARCELS 196, 24 AND 30 TAX MAP 34
5th ELECTION DISTRICT ZONED RR-DEO
CLARKSVILLE, MD
HOWARD COUNTY, MARYLAND 21029

OVERALL BUILDING REFERENCE PLAN

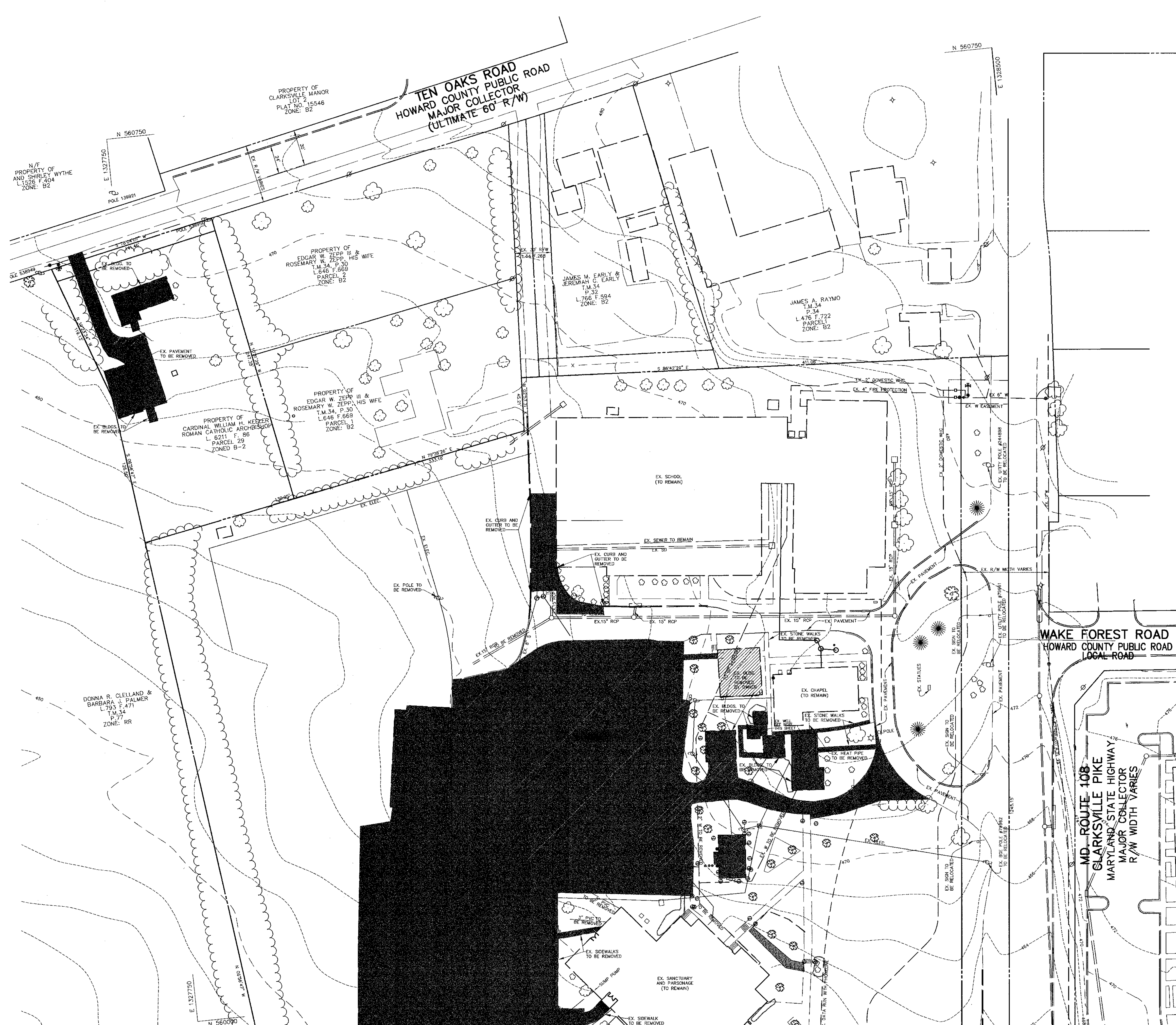
SITE RESOURCES, INC.
16315 Jarrettsville Pike • Phoenix, Maryland 21131
(410) 683-3388 • fax (410) 683-3389

DRAWING FILE: C
DESIGNED BY:
DRAWN BY:
PROJECT NO.:
DATE: 2/11/13
SCALE: 1"=60'
DRAWING NO. 1A OF 35


PROFESSIONAL ENGINEER
STATE OF MARYLAND
No. 2551
2.11.13

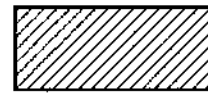


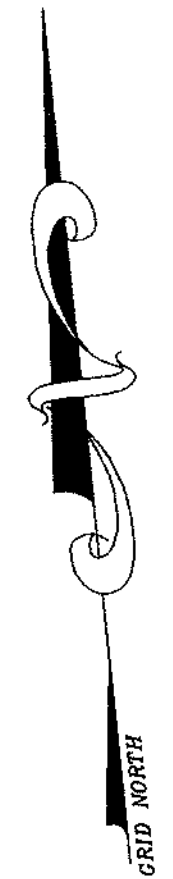
THIS SEAL FOR REVISIONS MADE BY SITE RESOURCES, INC.



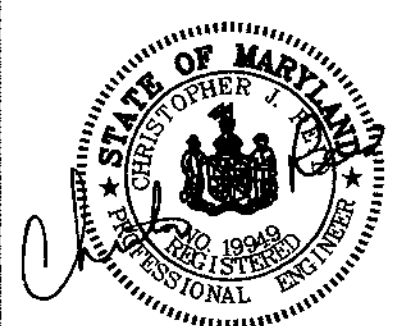
LEGEND

TO BE REMOVED 

TO BE REMOVED BY OWNER 



NOTE:
WELL TO BE ABANDONED BY LICENSED WELL DRILLER IN ACCORDANCE WITH HEALTH DEPARTMENT REGULATIONS.

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>Mark H. Wright</i> DIRECTOR	5/12/04 DATE
<i>John P. ...</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	1/20/04 DATE
<i>Clayton ...</i> CHIEF, DIVISION OF LAND DEVELOPMENT	5/11/04 DATE
DATE NO.	REVISION
OWNER / DEVELOPER	
MOST REVEREND WILLIAM H. KEELER ARCHBISHOP OF BALTIMORE P. O. BOX 155, SAINT LOUIS CHURCH ROUTES 108 & 32 CLARKSVILLE, MD 21029 PHONE: 410-531-6040 C/O MONSIGNOR JOSEPH L. LUCA	
PROJECT	
ST. LOUIS CHURCH IMPROVEMENTS PHASE 1 NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS	
AREA	
PARCELS 196 AND 29, TAX MAP 34 5th ELECTION DISTRICT, ZONED RR-DEO CLARKSVILLE HOWARD COUNTY, MARYLAND 21029	
TITLE	
DEMOLITION PLAN	
Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centge Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
12-23-03 DATE	DRAWING FILE: C400SDP09.DWG
	DESIGNED BY : J.W.C.
	DRAWN BY : D.R.H.
	PROJECT NO : 00370
	DATE : JUNE 9, 2003
	SCALE : 1" = 40'
CHRISTOPHER J. REID #11949	DRAWING NO. 2 OF 31

MATCHLINE SHEET 3

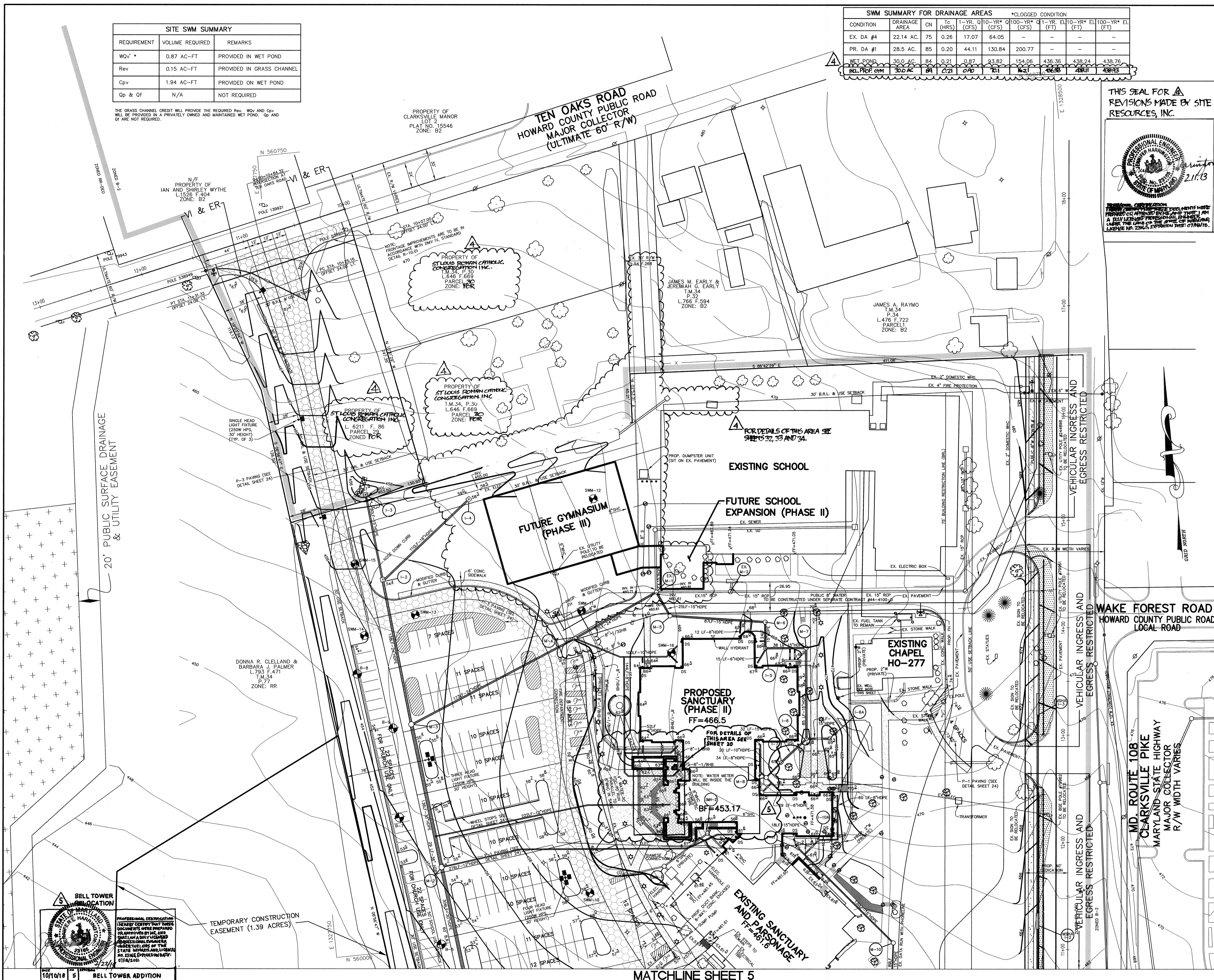
SITE SWM SUMMARY		
REQUIREMENT	VOLUME REQUIRED	REMARKS
WQv *	0.87 AC-FT	PROVIDED IN WET POND
Rev	0.15 AC-FT	PROVIDED IN GRASS CHANNEL
Cpv	1.94 AC-FT	PROVIDED ON WET POND
Op & Qf	N/A	NOT REQUIRED

THE GRASS CHANNEL CREDIT WILL PROVIDE THE REQUIRED Rev, WQv AND Cpv WILL BE PROVIDED IN A PRIVATELY OWNED AND MAINTAINED WET POND. Op AND Qf ARE NOT REQUIRED.

SWM SUMMARY FOR DRAINAGE AREAS									
CONDITION	DRAINAGE AREA	CN	Tc (HRS)	1-YR Q (CFS)	10-YR Q (CFS)	100-YR Q (CFS)	1-YR EL (FT)	10-YR EL (FT)	100-YR EL (FT)
EX. DA #1	22.14 AC.	75	0.26	17.07	64.05	-	-	-	-
PR. DA #1	28.5 AC.	85	0.20	44.11	130.84	200.77	-	-	-
WET POND	30.0 AC.	84	0.21	93.82	154.06	436.36	438.24	438.76	-
TOTAL	80.6 AC.	81	0.21	155.70	248.95	637.13	438.24	438.76	-

LEGEND	
EXISTING 2' CONTOUR	--- 400 ---
EXISTING 10' CONTOUR	--- 400 ---
PROPOSED 2' CONTOUR	--- 400 ---
PROPOSED 10' CONTOUR	--- 400 ---
PROPERTY LINE AND RIGHT OF WAY	-----
EXISTING STORM DRAIN	== 15" D ==
PROPOSED STORM DRAIN	== 15" D ==
PROPOSED UNDERGROUND STORAGE PIPE	=====
OVERHEAD WIRES	----- OHW -----
EXISTING TREELINE	~~~~~
PROPOSED TREELINE	~~~~~
EXISTING TREE	☼
PROP. SPOT ELEVATION	13' 2"
SETBACK LINES	-----
P-1 PAVING	-----
P-3 PAVING	-----
MSHA PAVING	-----
SIDEWALK	-----
PROPOSED LIGHTS	☼ ☼ ☼
EXISTING STREAM	~~~~~
EXISTING STREAM BUFFER	-----
PARKING SPACE	-----
HANDICAP PARKING SPACE	-----
EXISTING WATER	-----
PROPOSED WATER	-----
EXISTING CURB	-----
PROPOSED CURB	-----
EXISTING BUILDING	-----
PROPOSED BUILDING	-----
EXISTING UTILITY POLE	☼
VEHICULAR INGRESS AND EGRESS RESTRICTED	VI & ER

THIS SEAL FOR REVISIONS MADE BY SITE RESOURCES, INC.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Frank Wright 1/4/06
DIRECTOR DATE

Abkh 12/21/05
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Wanda Stambaugh 1/3/06
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

11/8/2012 4 ADDITION OF NEW GYMNASIUM / ACTIVITY CENTER TO THE EXISTING SCHOOL

9/28/05 2 REMOVED UNDERGROUND SWM FACILITIES, REV. STORM DRAIN AND PARKING LAYOUT

8/26/04 1 THIS REVISED SHEET REPLACES EXISTING SHEET 4

DATE NO. REVISION

OWNER / DEVELOPER

MOST REVEREND WILLIAM H. KEELER
ARCHBISHOP OF BALTIMORE
P. O. BOX 155, SAINT LOUIS CHURCH
ROUTES 108 & 32
CLARKSVILLE, MD 21029
PHONE: 410-531-6040
C/O MONSIGNOR JOSEPH L. LUCA

PROJECT

ST. LOUIS CHURCH IMPROVEMENTS PHASE I, II & III
NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS
12500 MD ROUTE 108

AREA

PARCELS 196, 24 AND 30 JFA MAP 34
5th ELECTION DISTRICT ZONED RR-DEO
CLARKSVILLE
HOWARD COUNTY, MARYLAND 21029

TITLE

REVISED SITE DEVELOPMENT PLAN

Patton Harris Rust & Associates, PC
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

PHRA

12/8/05 DATE
DESIGNED BY: A.C.R.
DRAWN BY: M.A.D.
PROJECT NO: 00370
DATE: DECEMBER 8, 2005
SCALE: 1" = 40'
DRAWING NO. 4 OF 35

Aimee C. Remington
AIMEE C. REMINGTON #29923

BELL TOWER ADDITION

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. 2271. EXPIRES 07/01/2011.

MATCHLINE SHEET 5

MATCHLINE SHEET 4

LEGEND

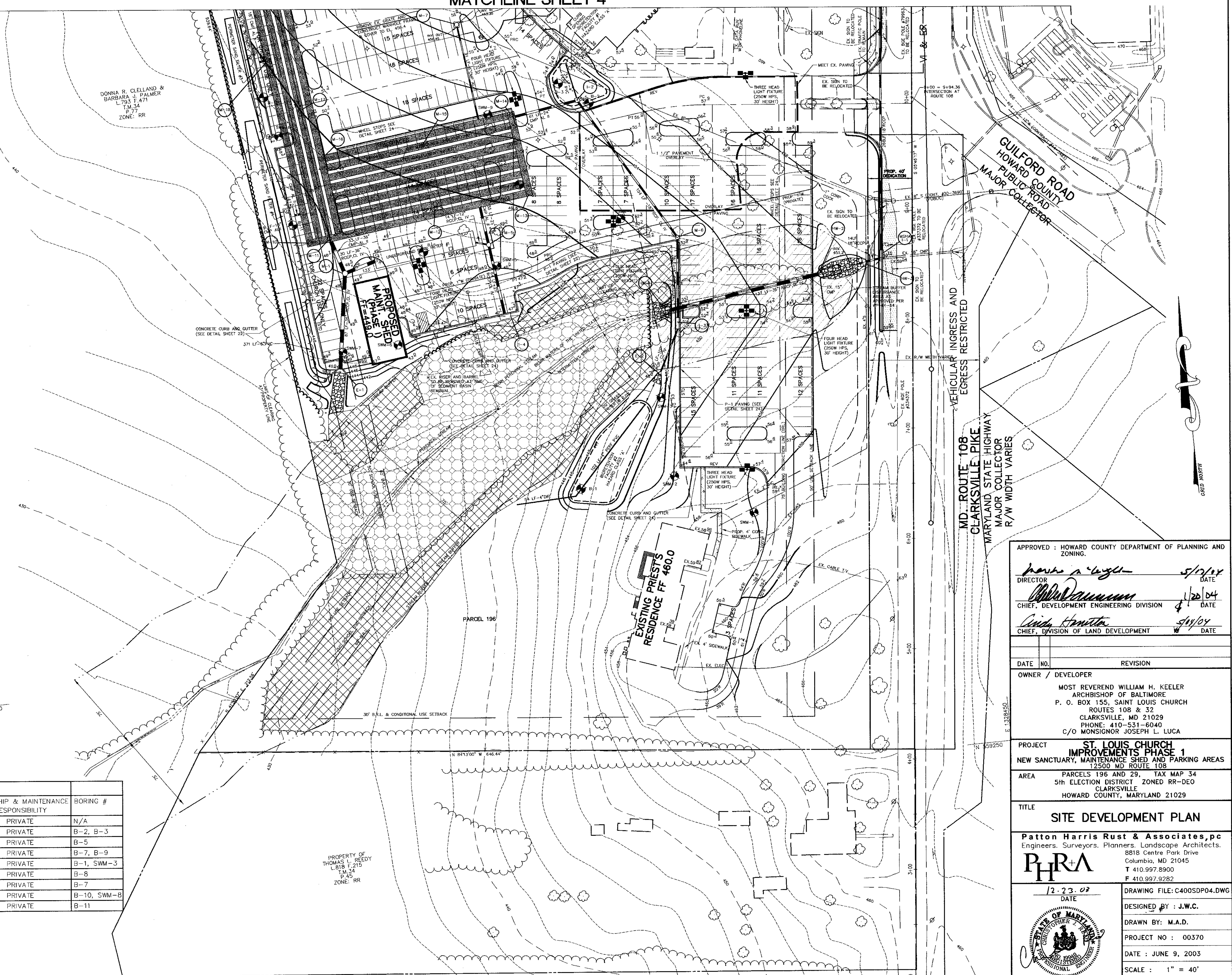
EXISTING 2' CONTOUR	400
EXISTING 10' CONTOUR	400
PROPOSED 2' CONTOUR	400
PROPOSED 10' CONTOUR	400
PROPERTY LINE AND RIGHT OF WAY	
EXISTING STORM DRAIN	15"D
PROPOSED STORM DRAIN	15"D
PROPOSED UNDERGROUND STORAGE PIPE	
OVERHEAD WIRES	OHW
EXISTING TREELINE	
PROPOSED TREELINE	
EXISTING TREE	
PROP. SPOT ELEVATION	13' 2"
SETBACK LINES	
P-1 PAVING	
MSHA PAVING	
SIDEWALK	
PROPOSED LIGHTS	
EXISTING STREAM	
EXISTING STREAM BUFFER	
PARKING SPACE	
HANDICAP PARKING SPACE	
EXISTING WATER	
PROPOSED WATER	
EXISTING CURB	
PROPOSED CURB	
EXISTING BUILDING	
PROPOSED BUILDING	
EXISTING UTILITY POLE	
VEHICULAR INGRESS AND EGRESS RESTRICTED	VI & ER

SITE SWM SUMMARY		
REQUIREMENT	VOLUME REQUIRED	REMARKS
WQv *	0.57 AC-FT (249.35 CF)	SEE TABLE ABOVE
Rev	0.09 AC-FT (37.26 CF)	SEE TABLE ABOVE
Cpv	1.28 AC-FT	PROVIDED IN UNDERGROUND FACILITY
Qp & Qf	N/A	

THE GRASS CHANNEL CREDIT WILL PROVIDE THE REQUIRED WQV AND Rev FOR DRAINAGE AREA 1A. THE Rev FOR THE REST OF THE SITE WILL BE PROVIDED IN A GRAVEL RESERVOIR UNDER BIORETENTION #2. THE CHANNEL PROTECTION VOLUME (Cpv) WILL BE PROVIDED BY 72" UNDERGROUND PIPES WITH A LOW FLOW ORIFICE SIZED TO PROVIDE 24 HRS OF EXTENDED DETENTION FOR THE 1 YR STORM EVENT.

WATER QUALITY BMP SUMMARY							
#	AREA (AC.)	WQV* (CF)	Rev (CF)	WQV MANAGEMENT	HAZARD CLASS	OWNERSHIP & MAINTENANCE RESPONSIBILITY	BORING #
1A	0.37	735	110	GRASS CHANNEL CREDIT	'A'	PRIVATE	N/A
1B	0.62	1462	218	BIORETENTION #1	'A'	PRIVATE	B-2, B-3
1C	2.66	5110	784	UNDERGROUND SAND FILTER #1	'A'	PRIVATE	B-5
1D	3.38	5167	772	UNDERGROUND SAND FILTER #2	'A'	PRIVATE	B-7, B-9
1E	2.21	3504	524	BIORETENTION #2	'A'	PRIVATE	B-1, SWM-3
1F	0.68	2040	305	PERIMETER SAND FILTER #1	'A'	PRIVATE	B-8
1G	0.34	1020	152	PERIMETER SAND FILTER #2	'A'	PRIVATE	B-7
1H	0.70	2100	314	PERIMETER SAND FILTER #3	'A'	PRIVATE	B-10, SWM-8
1J	0.72	2160	323	PERIMETER SAND FILTER #4	'A'	PRIVATE	B-11

*WQV = WQV - Rev



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Mark A. Gault 5/12/04
DIRECTOR DATE

William H. Keeler 4/20/04
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cindy Hamilton 5/14/04
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

OWNER / DEVELOPER

MOST REVEREND WILLIAM H. KEELER
ARCHBISHOP OF BALTIMORE
P. O. BOX 155, SAINT LOUIS CHURCH
ROUTES 108 & 32
CLARKSVILLE, MD 21029
PHONE: 410-531-6040
C/O MONSIGNOR JOSEPH L. LUCA

PROJECT

ST. LOUIS CHURCH
IMPROVEMENTS PHASE 1
NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS
12500 MD ROUTE 108

AREA

PARCELS 196 AND 29, TAX MAP 34
5th ELECTION DISTRICT ZONED RR-DEO
CLARKSVILLE
HOWARD COUNTY, MARYLAND 21029

TITLE

SITE DEVELOPMENT PLAN

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

12-23-02
DATE

DESIGNED BY: J.W.C.

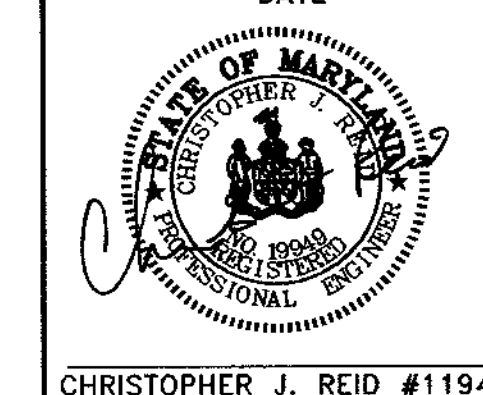
DRAWN BY: M.A.D.

PROJECT NO: 00370

DATE: JUNE 9, 2003

SCALE: 1" = 40'

DRAWING NO. 5 OF 31



SOIL CHART

SYMBOL	DESCRIPTION
EKA	ELIOAK SILT LOAM, 0 TO 3 PERCENT SLOPES
EKB2	ELIOAK SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED
GnA	GLENVILLE SILT LOAM, 0 TO 3 PERCENT SLOPES
GnB2	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED

DRAINAGE DATA

INLET NOS.	AREA IN ACRES	C FACTOR	PERCENT IMPERVIOUS
1	1.57	0.46	41
2	0.89	0.55	54
3	2.21	0.52	50
4	2.66	0.60	62
5	3.22	0.73	81
6	1.91	0.27	12
7	1.43	0.70	77
8	0.10	0.32	20
9	0.11	0.37	27

BY THE DEVELOPER :

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

John Madat 12/23/03
DEVELOPER DATE

BY THE ENGINEER :

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Chad J. Rose 12.23.03
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

Jim Mays/CS 1/14/04
NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

John S. ... 1/14/04
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Mark ... 5/12/11
DIRECTOR DATE

William ... 1/20/04
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cinda ... 5/14/04
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE NO. REVISION

OWNER / DEVELOPER
MOST REVEREND WILLIAM H. KEELER
ARCHBISHOP OF BALTIMORE
P. O. BOX 155, SAINT LOUIS CHURCH
ROUTES 108 & 32
CLARKSVILLE, MD 21029
PHONE: 410-531-6040
C/O MONSIGNOR JOSEPH L. LUCA

PROJECT
ST. LOUIS CHURCH
IMPROVEMENTS PHASE 1
NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS
12500 MD ROUTE 108

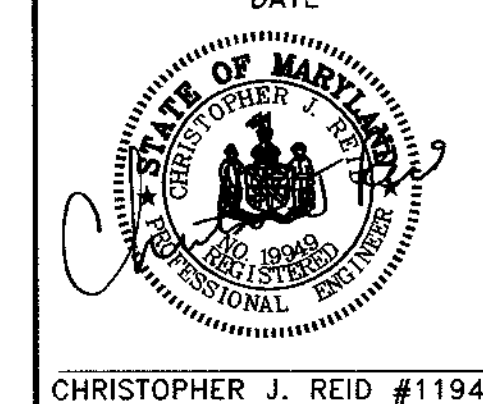
AREA
PARCELS 196 AND 29, TAX MAP 34
5th ELECTION DISTRICT ZONED RR-DEO
CLARKSVILLE
HOWARD COUNTY, MARYLAND 21029

TITLE
GRADING AND
SEDIMENT CONTROL PLAN

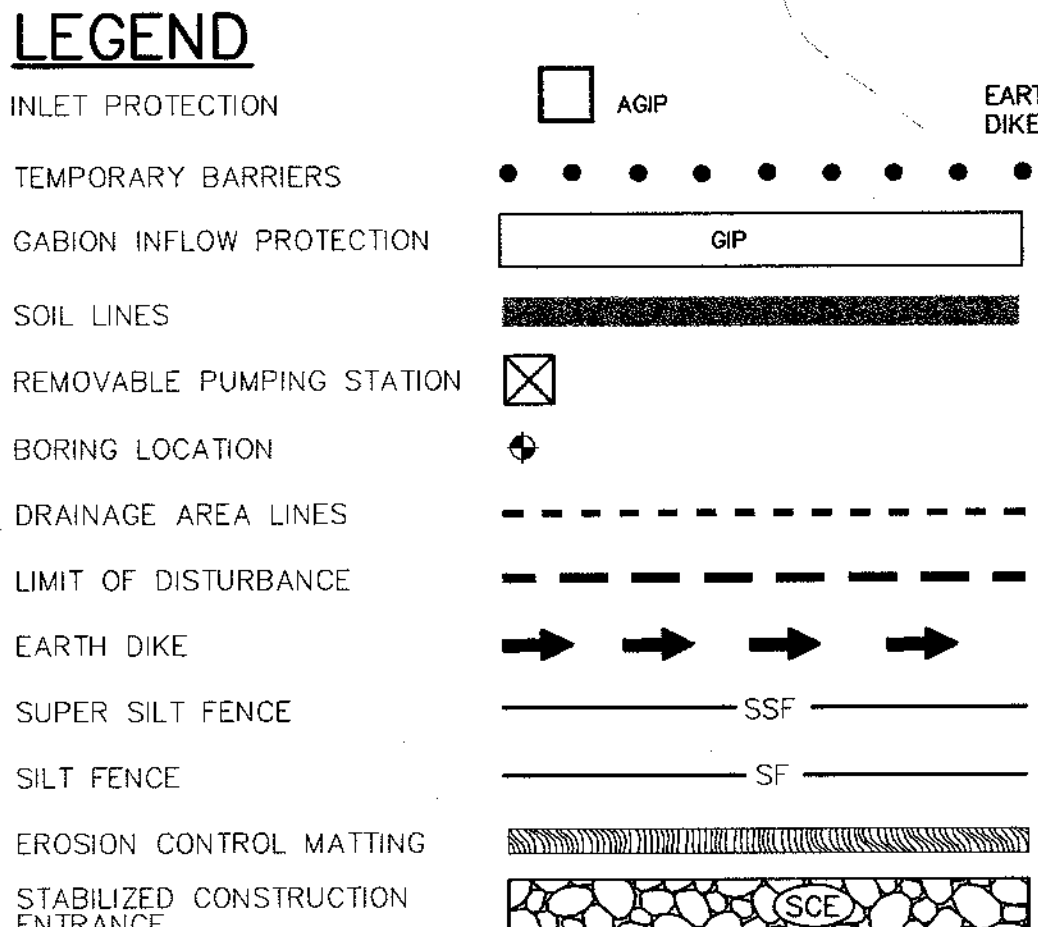
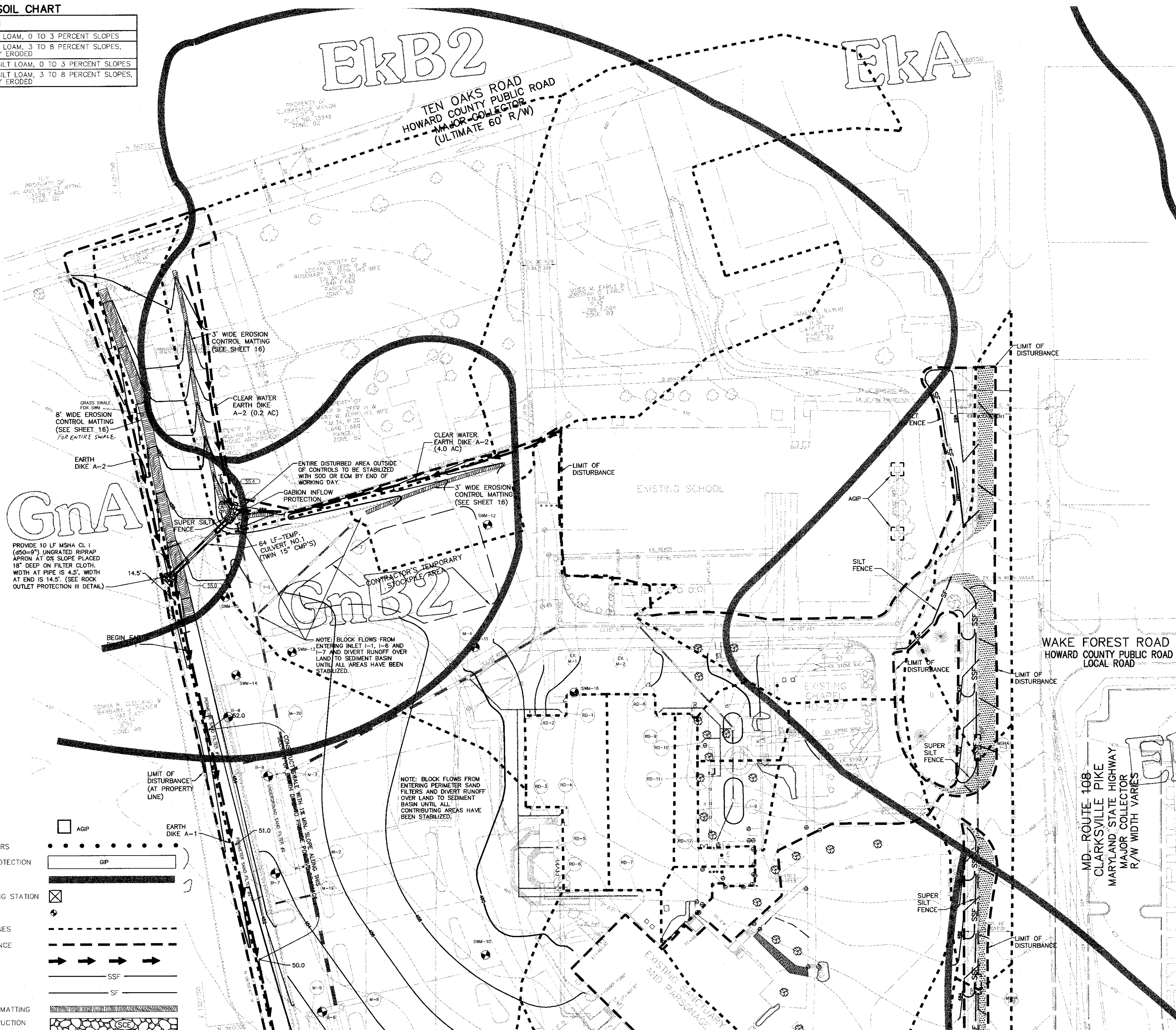
Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

12.23.03
DATE DRAWING FILE: C400SDP05.DWG

DESIGNED BY: A.C.R.
DRAWN BY: M.A.D.
PROJECT NO: 00370
DATE: JUNE 9, 2003
SCALE: 1" = 40'
DRAWING NO. 6 OF 31



CHRISTOPHER J. REID #11949



MATCHLINE SHEET 7

MATCHLINE SHEET 6

SOIL CHART	
SYMBOL	DESCRIPTION
EKA	ELIOAK SILT LOAM, 0 TO 3 PERCENT SLOPES
EkB2	ELIOAK SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED
GIC2	GLENELG LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED
GnB2	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED
MgC2	MANOR GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED
MIC2	MANOR LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED

BY THE DEVELOPER :

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

John Newkirk 12/29/03
DEVELOPER DATE

BY THE ENGINEER :

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Chris J. Reid 12-23-03
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

Jim Meyer, P.E. 1/16/04
NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

John A. ... 1/16/04
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Mark ... 5/12/04
DIRECTOR DATE

... 1/20/04
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

... 5/17/04
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE	NO.	REVISION

OWNER / DEVELOPER

MOST REVEREND WILLIAM H. KEELER
ARCHBISHOP OF BALTIMORE
P. O. BOX 155, SAINT LOUIS CHURCH
ROUTES 108 & 32
CLARKSVILLE, MD 21029
PHONE: 410-531-6040
C/O MONSIGNOR JOSEPH L. LUCA

PROJECT

ST. LOUIS CHURCH
IMPROVEMENTS PHASE 1
NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS
12500 MD ROUTE 108

AREA

PARCELS 196 AND 29, TAX MAP 34
5th ELECTION DISTRICT ZONED RR-DEO
CLARKSVILLE
HOWARD COUNTY, MARYLAND 21029

TITLE

GRADING AND
SEDIMENT CONTROL PLAN

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

12-23-03
DATE

DESIGNED BY : A.C.R.

DRAWN BY: M.A.D.

PROJECT NO : 00370

DATE : JUNE 9, 2003

SCALE : 1" = 40'

DRAWING NO. 7 OF 31

CHRISTOPHER J. REID #11949

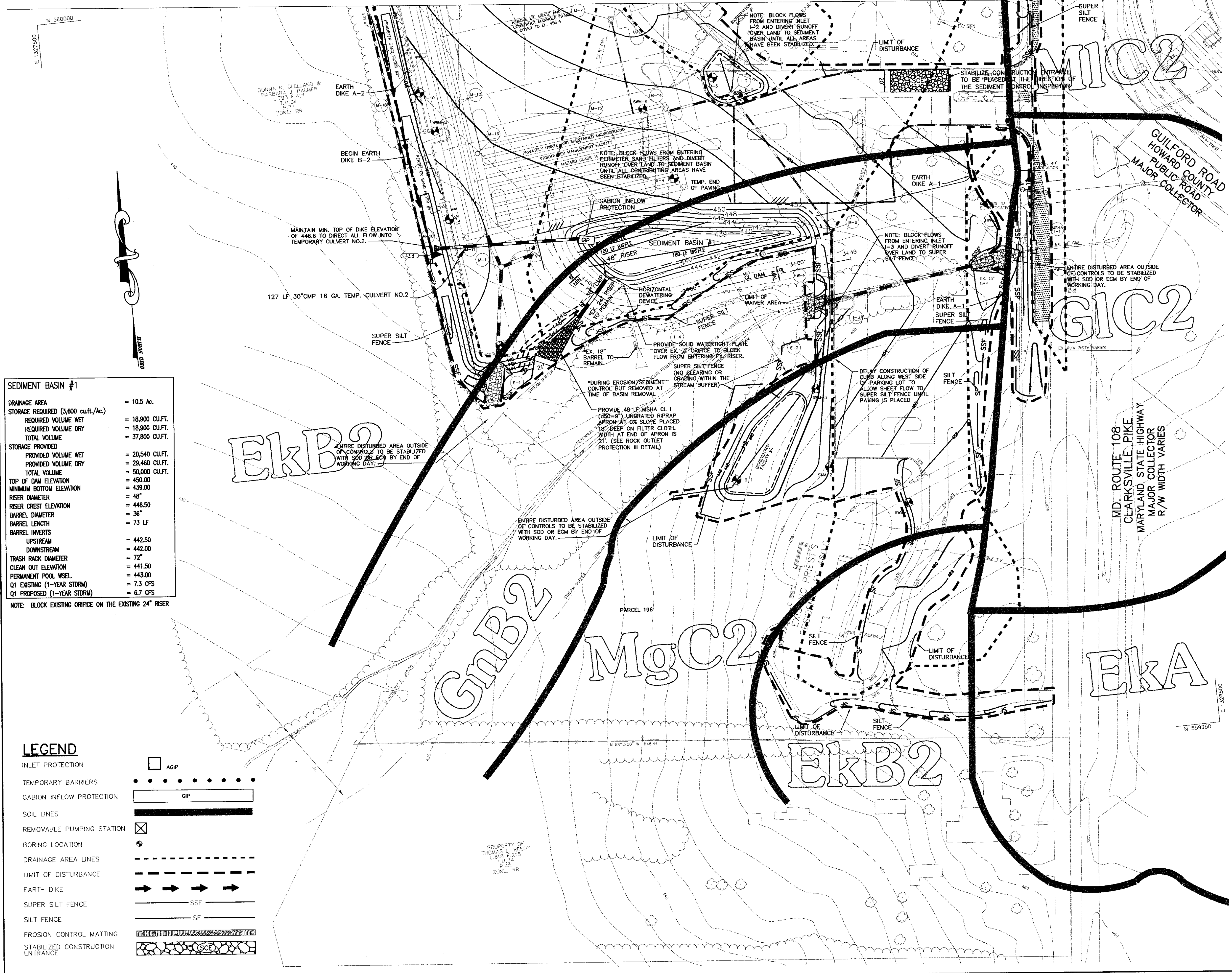
SEDIMENT BASIN #1

DRAINAGE AREA	= 10.5 Ac.
STORAGE REQUIRED (3,600 cu.ft./Ac.)	
REQUIRED VOLUME WET	= 18,900 CU.FT.
REQUIRED VOLUME DRY	= 18,900 CU.FT.
TOTAL VOLUME	= 37,800 CU.FT.
STORAGE PROVIDED	
PROVIDED VOLUME WET	= 20,540 CU.FT.
PROVIDED VOLUME DRY	= 29,460 CU.FT.
TOTAL VOLUME	= 50,000 CU.FT.
TOP OF DAM ELEVATION	= 450.00
MINIMUM BOTTOM ELEVATION	= 439.00
RISER DIAMETER	= 48"
RISER CREST ELEVATION	= 446.50
BARREL DIAMETER	= 36"
BARREL LENGTH	= 73 LF
BARREL INVERTS	
UPSTREAM	= 442.50
DOWNSTREAM	= 442.00
TRASH RACK DIAMETER	= 72"
CLEAN OUT ELEVATION	= 441.50
PERMANENT POOL WSEL	= 443.00
Q1 EXISTING (1-YEAR STORM)	= 7.3 CFS
Q1 PROPOSED (1-YEAR STORM)	= 6.7 CFS

NOTE: BLOCK EXISTING ORIFICE ON THE EXISTING 24" RISER

LEGEND

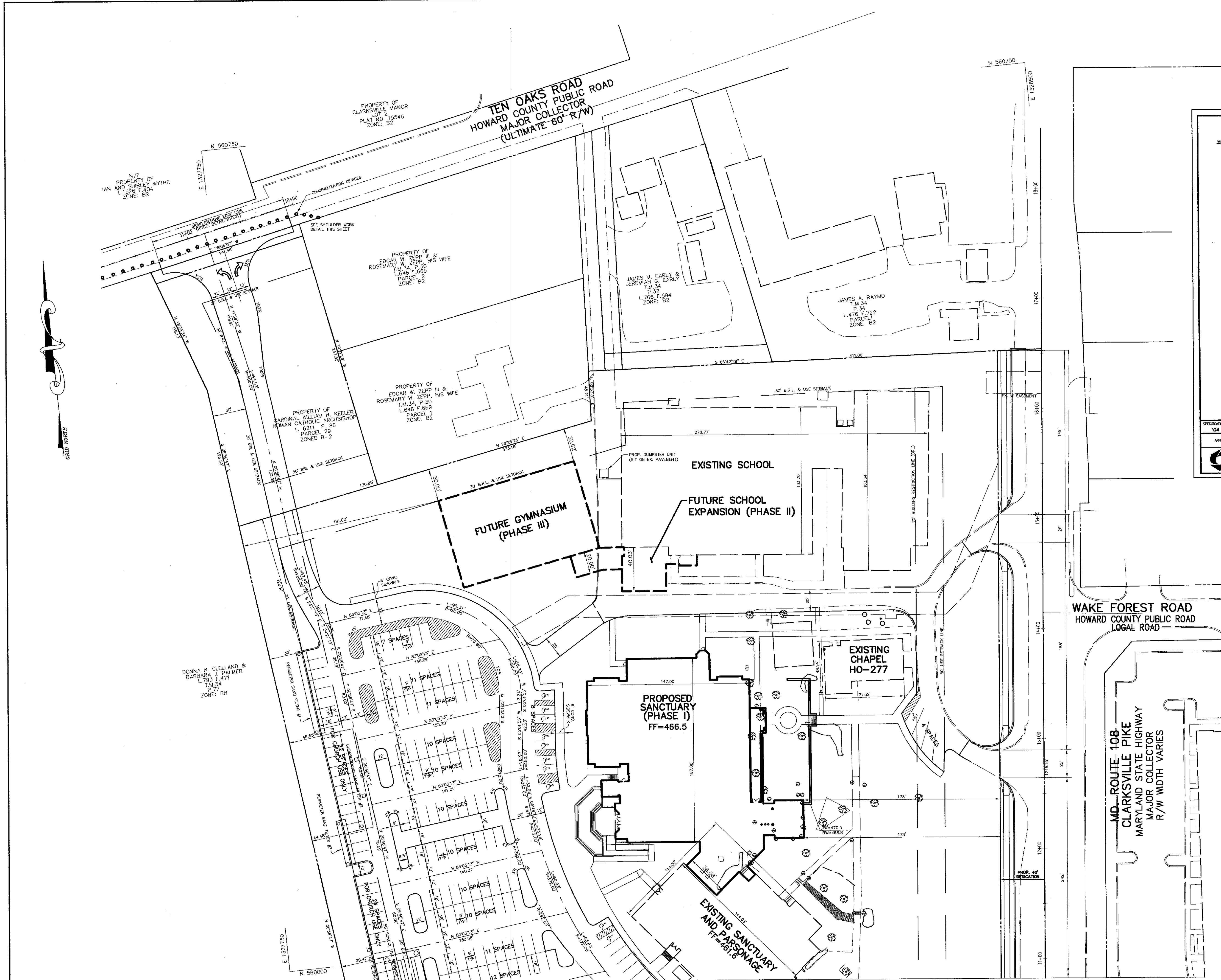
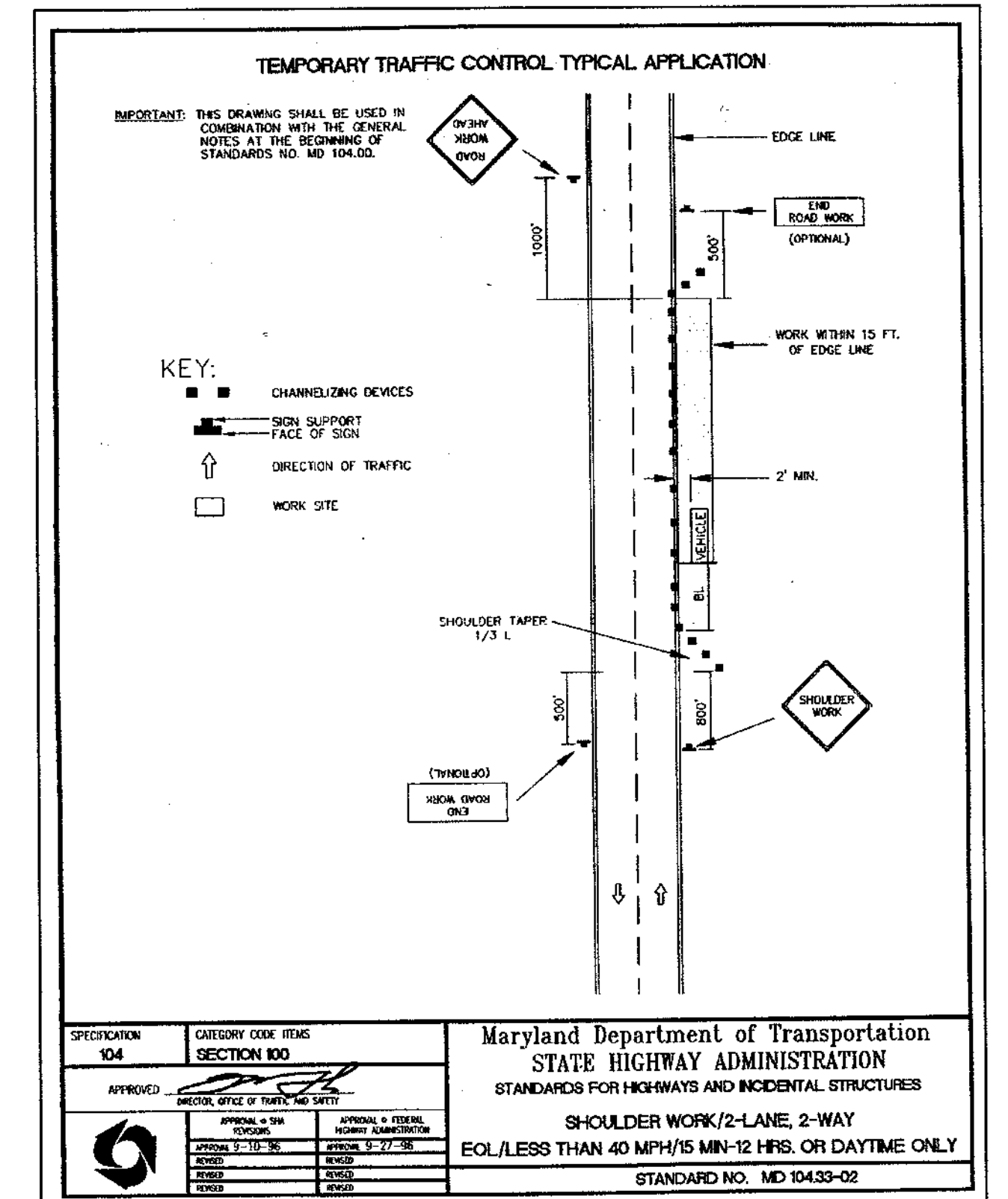
INLET PROTECTION	AGIP
TEMPORARY BARRIERS
CABION INFLOW PROTECTION	GIP
SOIL LINES	-----
REMOVABLE PUMPING STATION	⊗
BORING LOCATION	⊕
DRAINAGE AREA LINES	-----
LIMIT OF DISTURBANCE	-----
EARTH DIKE	→ → → →
SUPER SILT FENCE	SSF
SILT FENCE	SF
EROSION CONTROL MATTING	-----
STABILIZED CONSTRUCTION ENTRANCE	-----



P:\project\00370-1-01\Engr\Plans\C400SDP06.dwg, Model, 12/23/2003 10:23:41 AM, HP750C (98) par3, User1308, 1:40

NOTES:

1. ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE TO FACE OF CURB OR BUILDING UNLESS OTHERWISE NOTED.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Mark D. Langan 5/12/04 DATE
DIRECTOR

Mr. [Signature] 12/04 DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Wanda Hamilton 5/14/04 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT

DATE NO.	REVISION
OWNER / DEVELOPER	
MOST REVEREND WILLIAM H. KEELER ARCHBISHOP OF BALTIMORE P. O. BOX 155, SAINT LOUIS CHURCH ROUTES 108 & 32 CLARKSVILLE, MD 21029 PHONE: 410-531-6040 C/O MONSIGNOR JOSEPH L. LUCA	

PROJECT ST. LOUIS CHURCH IMPROVEMENTS PHASE 1
NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS
12500 MD ROUTE 108

AREA PARCELS 196 AND 29, TAX MAP 34
5th ELECTION DISTRICT ZONED RR-DEO
CLARKSVILLE
HOWARD COUNTY, MARYLAND 21029

TITLE GEOMETRY, TRAFFIC CONTROL AND STRIPING PLAN

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

PHRA

12-23-07 DATE

DESIGNED BY: J.W.C.

DRAWN BY: M.A.D.

PROJECT NO: 00370

DATE: JUNE 9, 2003

SCALE: 1" = 40'

DRAWING NO. 8 OF 31

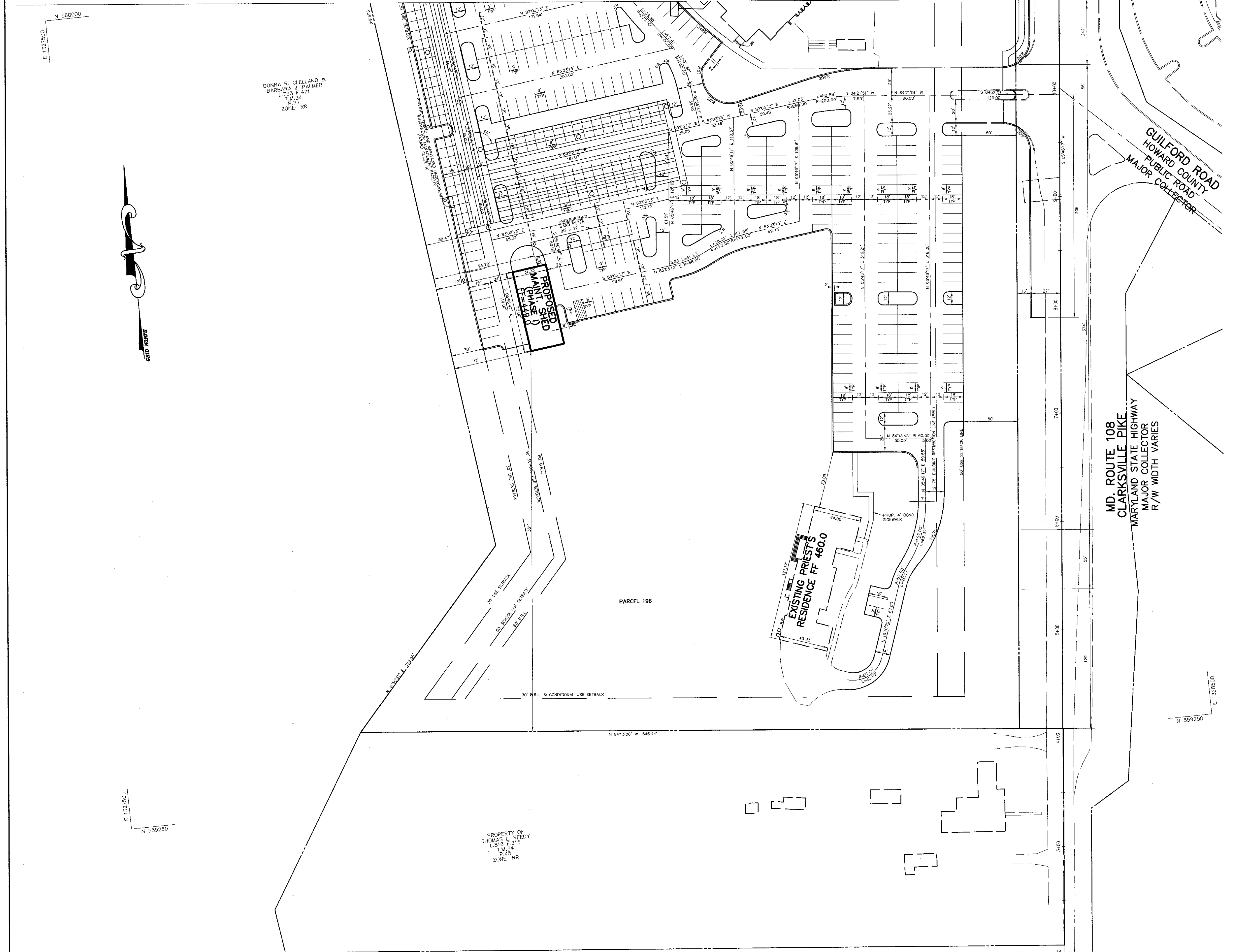
CHRISTOPHER J. REID #11949

MATCHLINE SHEET 9

SDP-03-64

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MATCHLINE SHEET 8



APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
DIRECTOR <i>Mark D. Light</i>	DATE 5/12/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION <i>Willie D. ...</i>	DATE 4/20/04
CHIEF, DIVISION OF LAND DEVELOPMENT <i>Cinda ...</i>	DATE 5/14/03
DATE NO.	REVISION
OWNER / DEVELOPER MOST REVEREND WILLIAM H. KEELER ARCHBISHOP OF BALTIMORE P. O. BOX 155, SAINT LOUIS CHURCH ROUTES 108 & 32 CLARKSVILLE, MD 21029 PHONE: 410-531-6040 C/O MONSIGNOR JOSEPH L. LUCA	
PROJECT ST. LOUIS CHURCH IMPROVEMENTS PHASE 1 NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS 12500 MD ROUTE 108	
AREA PARCELS 196 AND 29, TAX MAP 34 5th ELECTION DISTRICT ZONED RR-DEO CLARKSVILLE HOWARD COUNTY, MARYLAND 21029	
TITLE GEOMETRY PLAN	
Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
12-23-03 DATE	
DRAWING FILE: C400SDP08.DWG	
DESIGNED BY : J.W.C.	
DRAWN BY : M.A.D.	
PROJECT NO : 00370	
DATE : JUNE 9, 2003	
SCALE : 1" = 40'	
DRAWING NO. 9 OF 31	
CHRISTOPHER J. REID #11949	

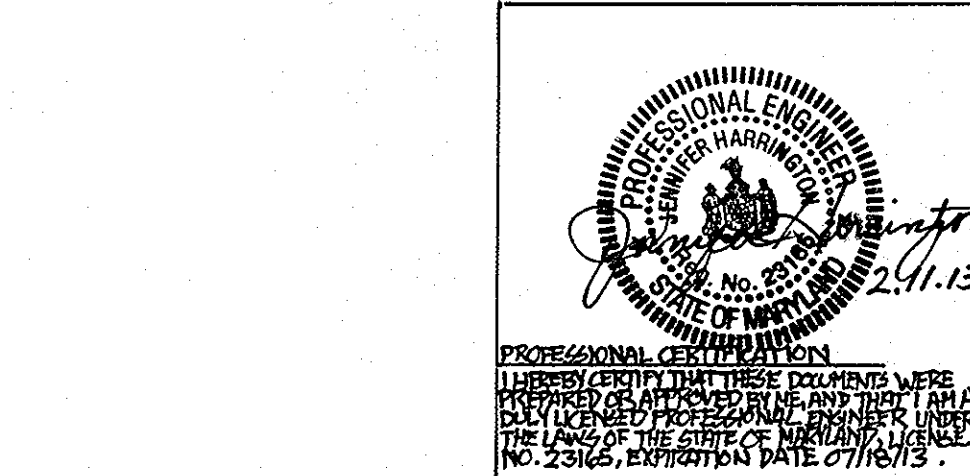
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LEGEND

- DRAINAGE DIVIDES
- TIME OF CONCENTRATION
- DRAINAGE AREA DESIGNATION
- COMMERCIAL
- 1/2 ACRE LOTS

THIS SEAL FOR REVISIONS MADE BY SITE RESOURCES, INC.



APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

<i>Frank A. Wright</i>	1/10/05
DIRECTOR	DATE
<i>Shelley K...</i>	12/28/05
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>David...</i>	1/1/06
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
11/8/2012 4	ADDITION OF NEW GYMNASIUM / ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING.
6/20/06 2	ADDED LEAN-TO AND REVISED PARKING
9/28/05 1	ADDED DRAINAGE AREA FOR OFFSITE SWM FACILITY
DATE NO.	REVISION

OWNER / DEVELOPER
 MOST REVEREND WILLIAM H. KEELER
 ARCHBISHOP OF BALTIMORE
 P. O. BOX 155, SAINT LOUIS CHURCH
 ROUTES 108 & 32
 CLARKSVILLE, MD 21029
 PHONE: 410-531-6040
 C/O MONSIGNOR JOSEPH L. LUCA

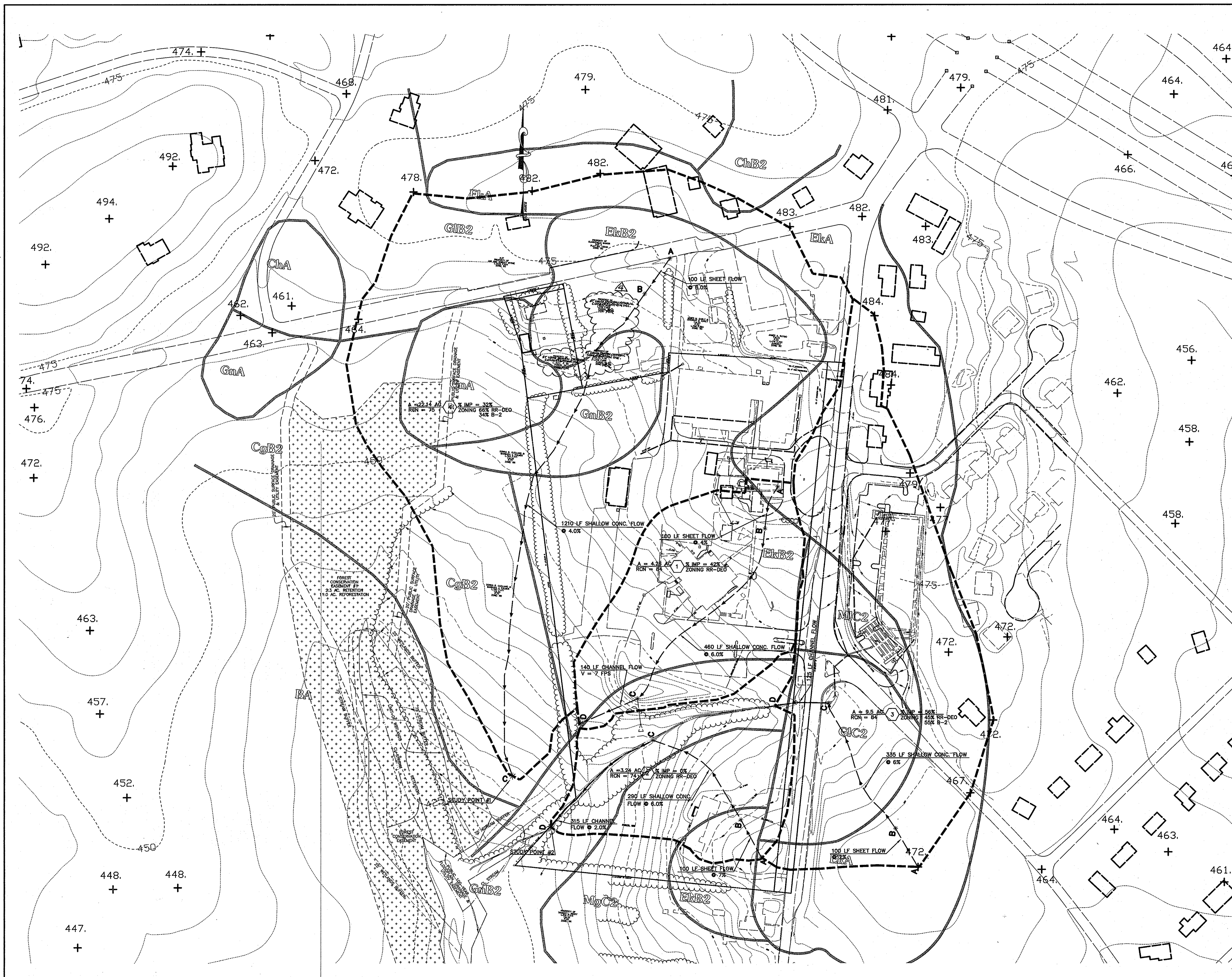
PROJECT
ST. LOUIS CHURCH IMPROVEMENTS PHASE I, II & III
 NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS
 12500 MD ROUTE 108

AREA
 PARCELS 196, 29 AND 30 TAX MAP 34
 5th ELECTION DISTRICT - ZONED RR-DEO
 CLARKSVILLE
 HOWARD COUNTY, MARYLAND 21029

TITLE
PROPOSED CONDITIONS SWM DRAINAGE AREA MAP

Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

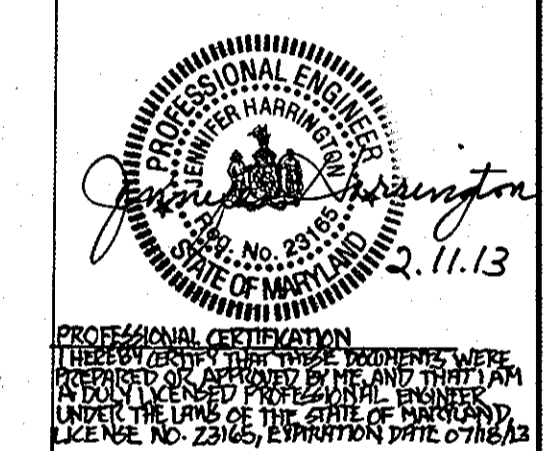
<i>Alphas</i>	DATE	DRAWING FILE: \REVISED SDP\ C410PDA.DWG
	DESIGNED BY: A.C.R.	
	DRAWN BY: M.A.D.	
	PROJECT NO: 00370	
	DATE: DECEMBER 8, 2005	
	SCALE: 1" = 100'	
<i>Patton Harris Rust & Associates</i>	DRAWING NO. 10 OF 35	



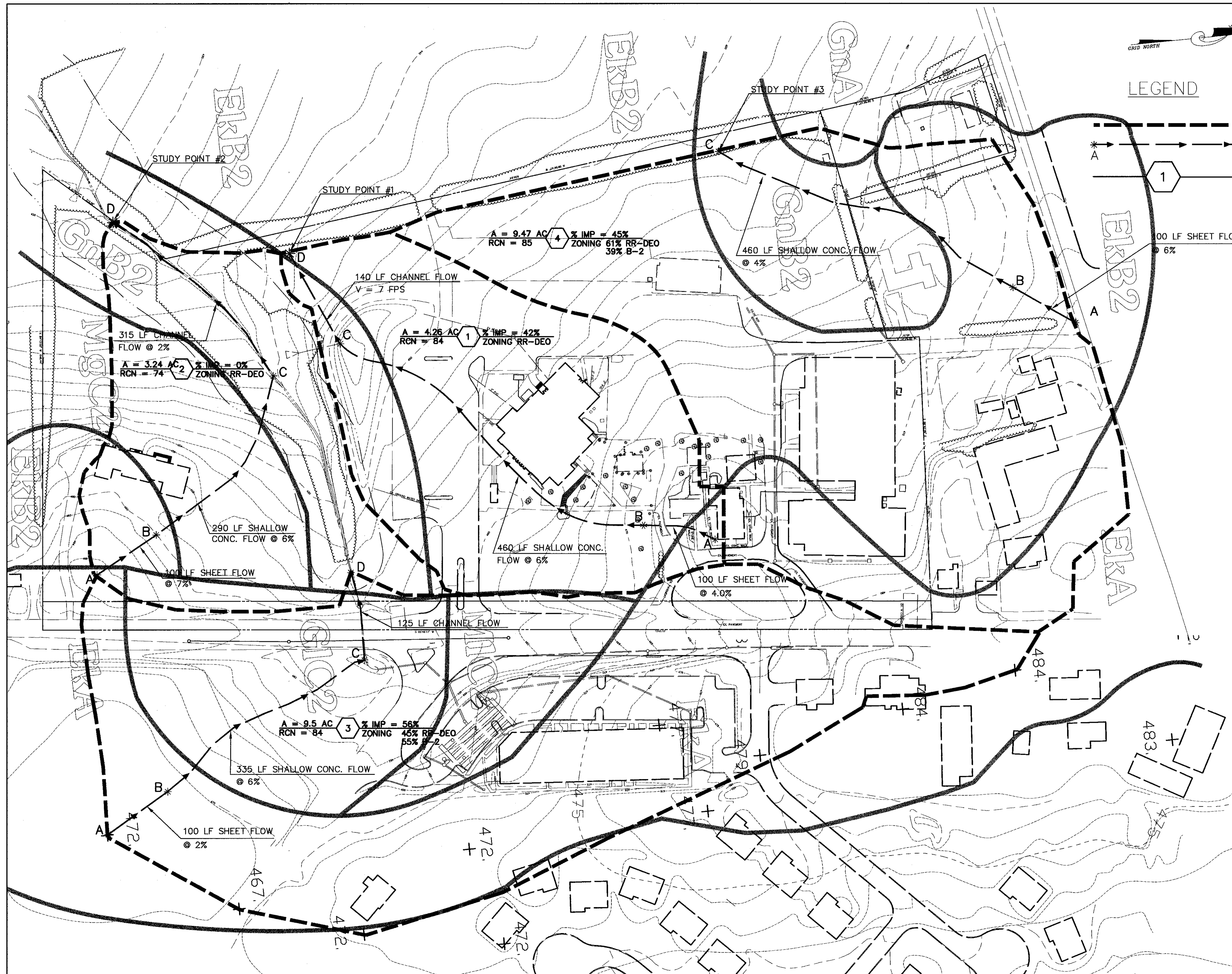
LEGEND

- DRAINAGE DIVIDES
- *---* TIME OF CONCENTRATION
- ① DRAINAGE AREA DESIGNATION

THIS SEAL FOR REVISIONS MADE BY SITE RESOURCES, INC.



11/8/2012	ADDITION OF NEW GYMNASIUM / ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>David L. Gaylor</i>	1/10 DATE
DIRECTOR	
<i>Shahk</i>	12/28/05 DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION	
<i>Chris Chesser</i>	1/2/06 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT	
9/28/05	1 ADDED DRAINAGE AREA FOR OFFSITE SWM POND
DATE NO.	REVISION
OWNER / DEVELOPER	
MOST REVEREND WILLIAM H. KEELER ARCHBISHOP OF BALTIMORE P. O. BOX 155, SAINT LOUIS CHURCH ROUTES 108 & 32 CLARKSVILLE, MD 21029 PHONE: 410-531-6040 C/O MONSIGNOR JOSEPH L. LUCA	
PROJECT	
ST. LOUIS CHURCH IMPROVEMENTS PHASE 1, 11 & 11	
NEW SANCTUARY, MAINTENANCE SHED, AND PARKING AREAS 12500 MD ROUTE 108	
AREA	
PARCELS 196, 24 AND 20 TAX MAP 34 5th ELECTION DISTRICT ZONED RR-DEO CLARKSVILLE HOWARD COUNTY, MARYLAND 21029	
TITLE	
EXISTING CONDITIONS SWM DRAINAGE AREA MAP	
Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
12/8/05 DATE	DRAWING FILE: \REVISED SDP\
	DESIGNED BY : A.C.R.
	DRAWN BY: M.A.D.
	PROJECT NO : 00370
	DATE: DECEMBER 8, 2005
	SCALE : 1" = 100'
<i>James C. Remington</i> JAMES C. REMINGTON #29923	DRAWING NO. 11 OF 35

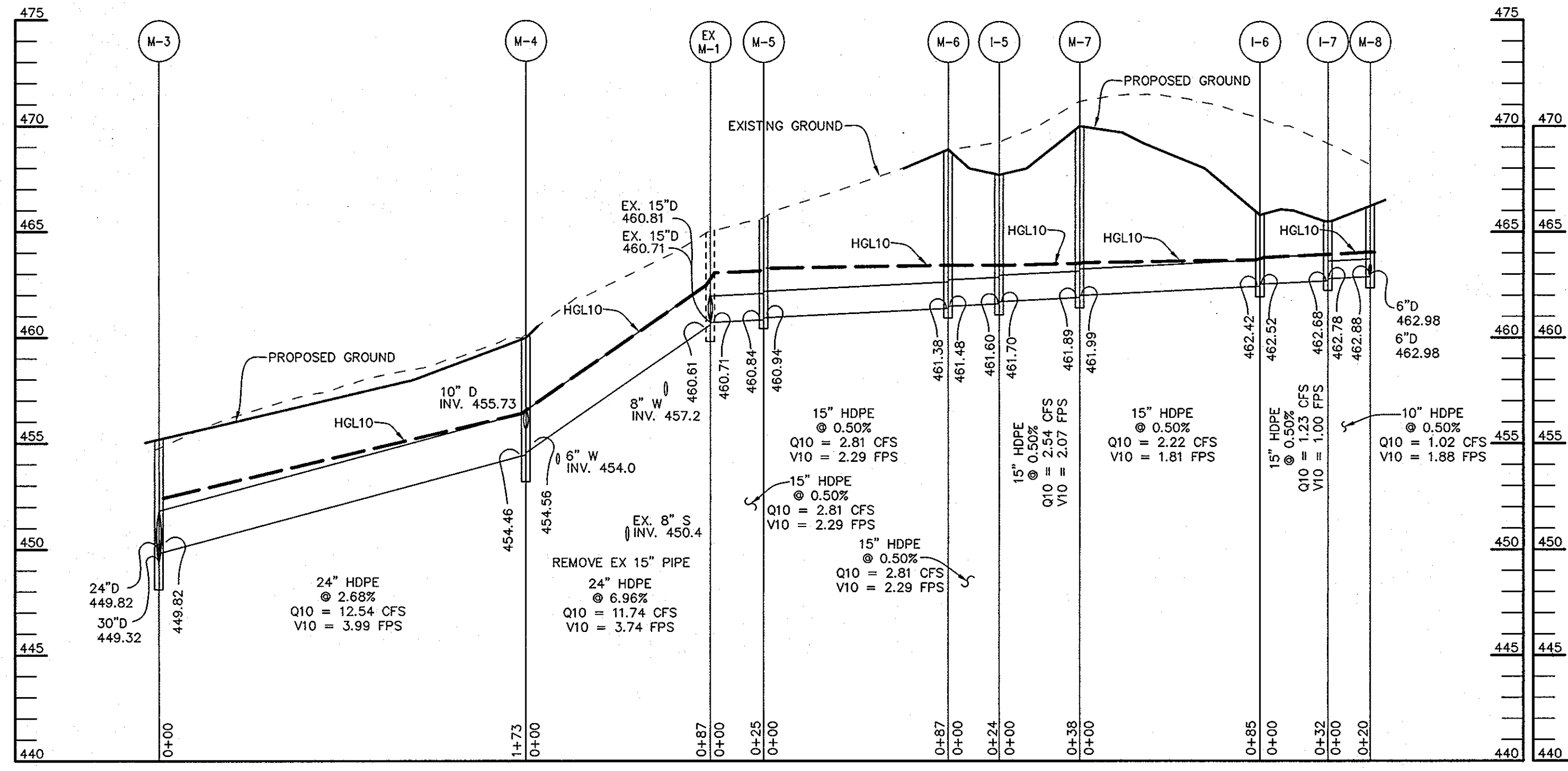


LEGEND

- DRAINAGE DIVIDES
- TIME OF CONCENTRATION FLOW PATH
- AREA DESIGNATION

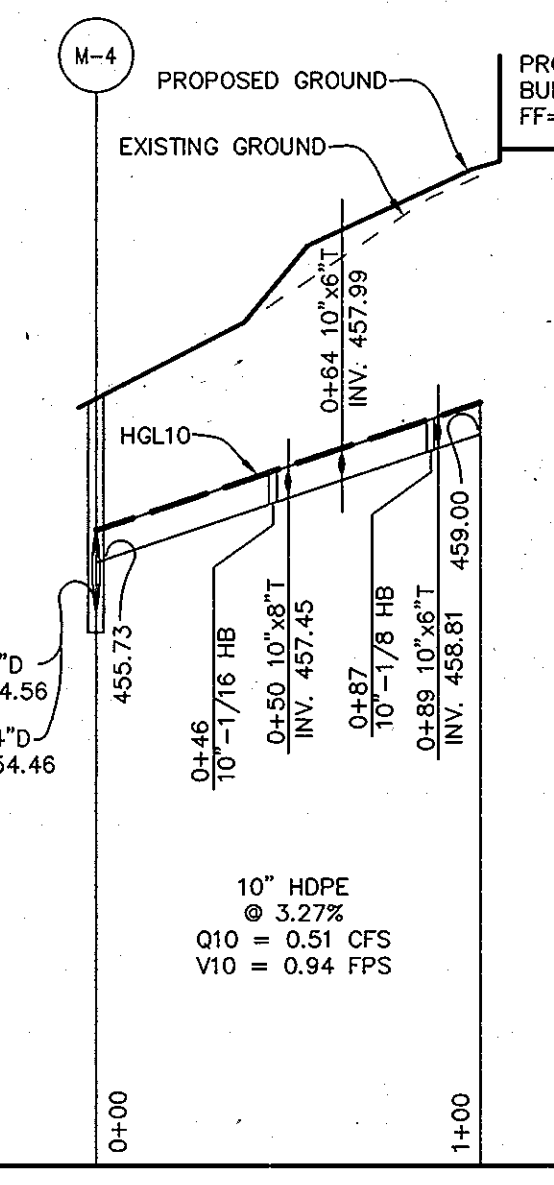
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>Mark A. Taylor</i>	5/12/17 DATE
DIRECTOR	
<i>Chris P. ...</i>	1/20/17 DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION	
<i>Chris ...</i>	5/14/17 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT	
DATE NO.	REVISION
OWNER / DEVELOPER	
MOST REVEREND WILLIAM H. KEELER ARCHBISHOP OF BALTIMORE P. O. BOX 155, SAINT LOUIS CHURCH ROUTES 108 & 32 CLARKSVILLE, MD 21029 PHONE: 410-531-6040 C/O MONSIGNOR JOSEPH L. LUCA	
PROJECT	
ST. LOUIS CHURCH IMPROVEMENTS PHASE 1 NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS 12500 MD ROUTE 108	
AREA	
PARCELS 196 AND 29, TAX MAP 34 5th ELECTION DISTRICT ZONED RR-DEO CLARKSVILLE HOWARD COUNTY, MARYLAND 21029	
TITLE	
EXISTING CONDITIONS SWM DRAINAGE AREA MAP	
Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
12.27.13 DATE	DRAWING FILE: C410XDA.DWG
DESIGNED BY : A.C.R. DRAWN BY : D.R.H. PROJECT NO : 00370 DATE : JUNE 9, 2003 SCALE : 1" = 60' DRAWING NO. 11 OF 31	
CHRISTOPHER J. REID #11949	

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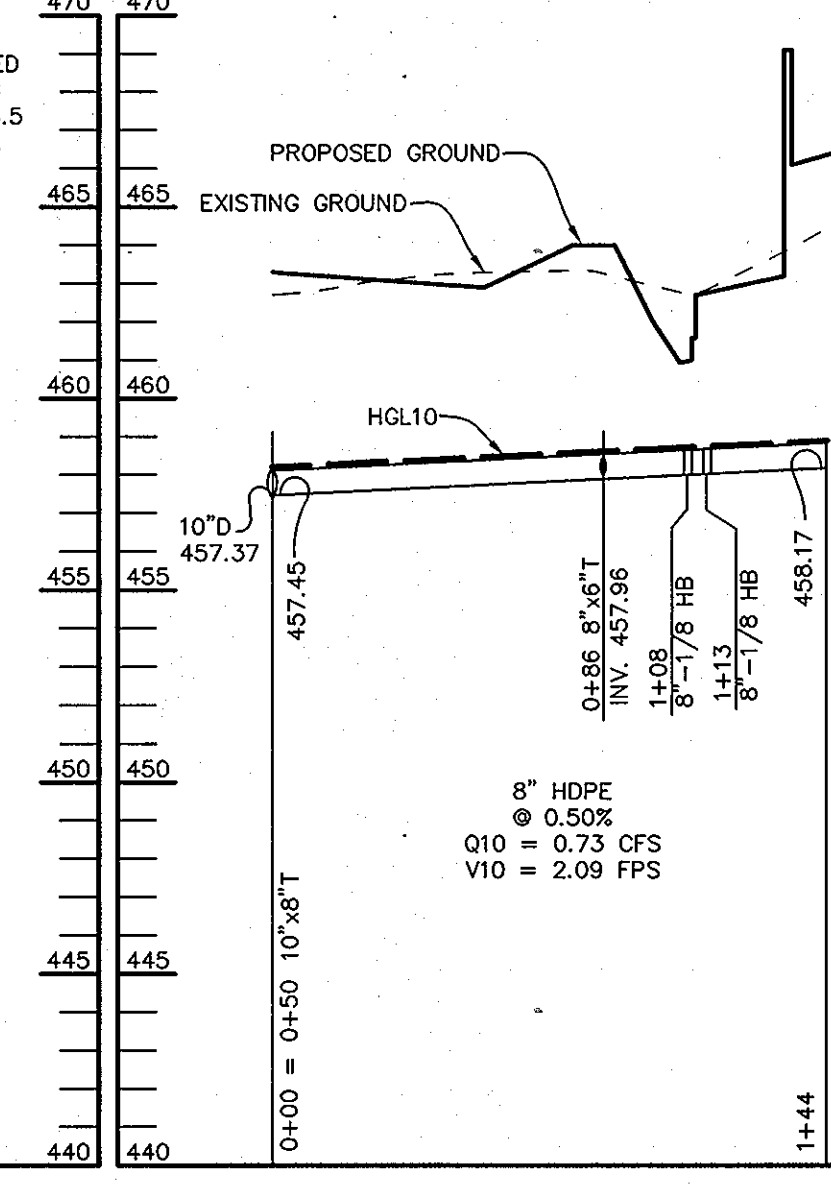
STORM DRAIN PROFILE

SCALE:
HOR.-1"=50'
VERT.-1"=5'



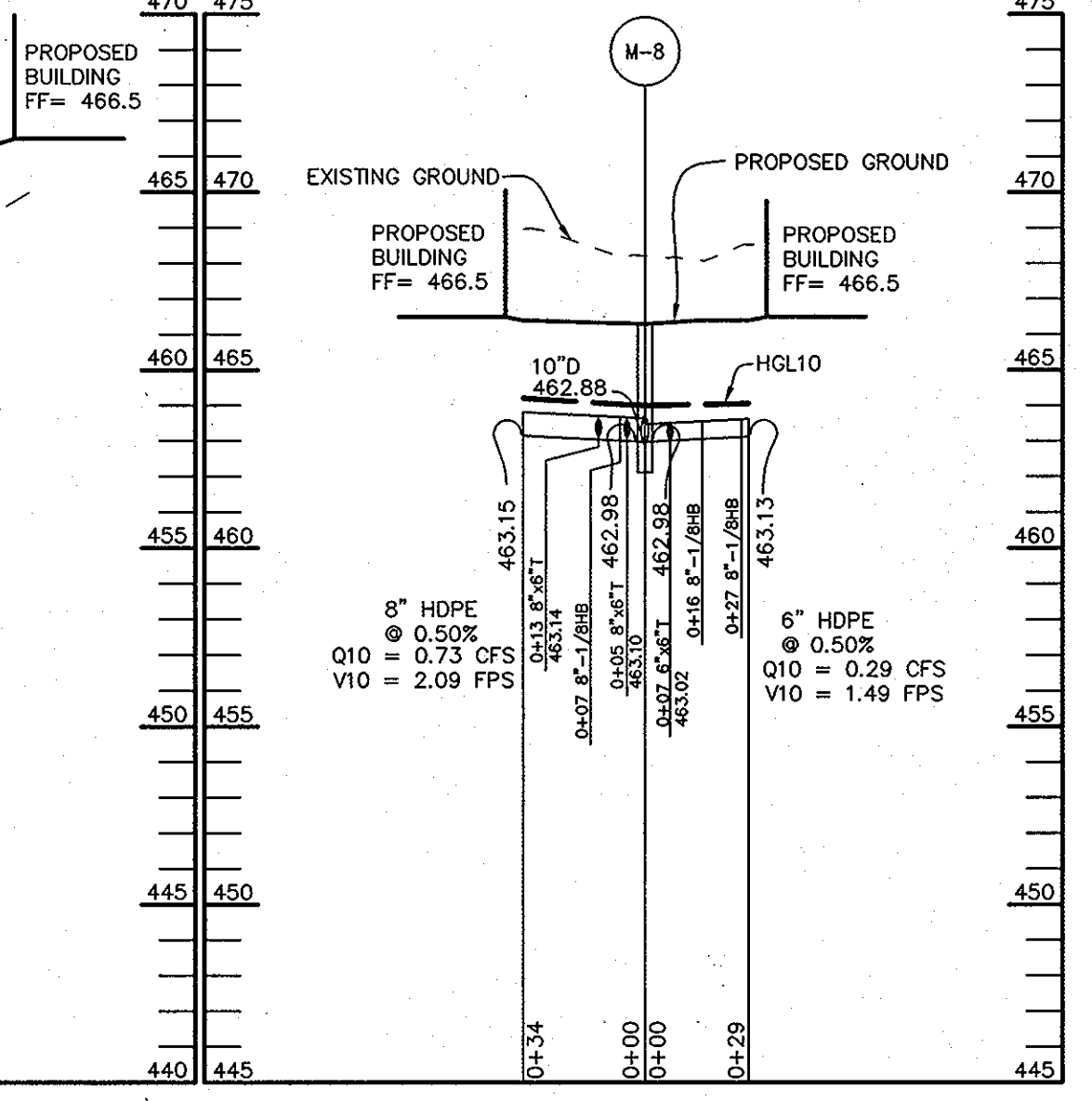
ROOF DRAIN PROFILE

SCALE:
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VERT.-1"=5'



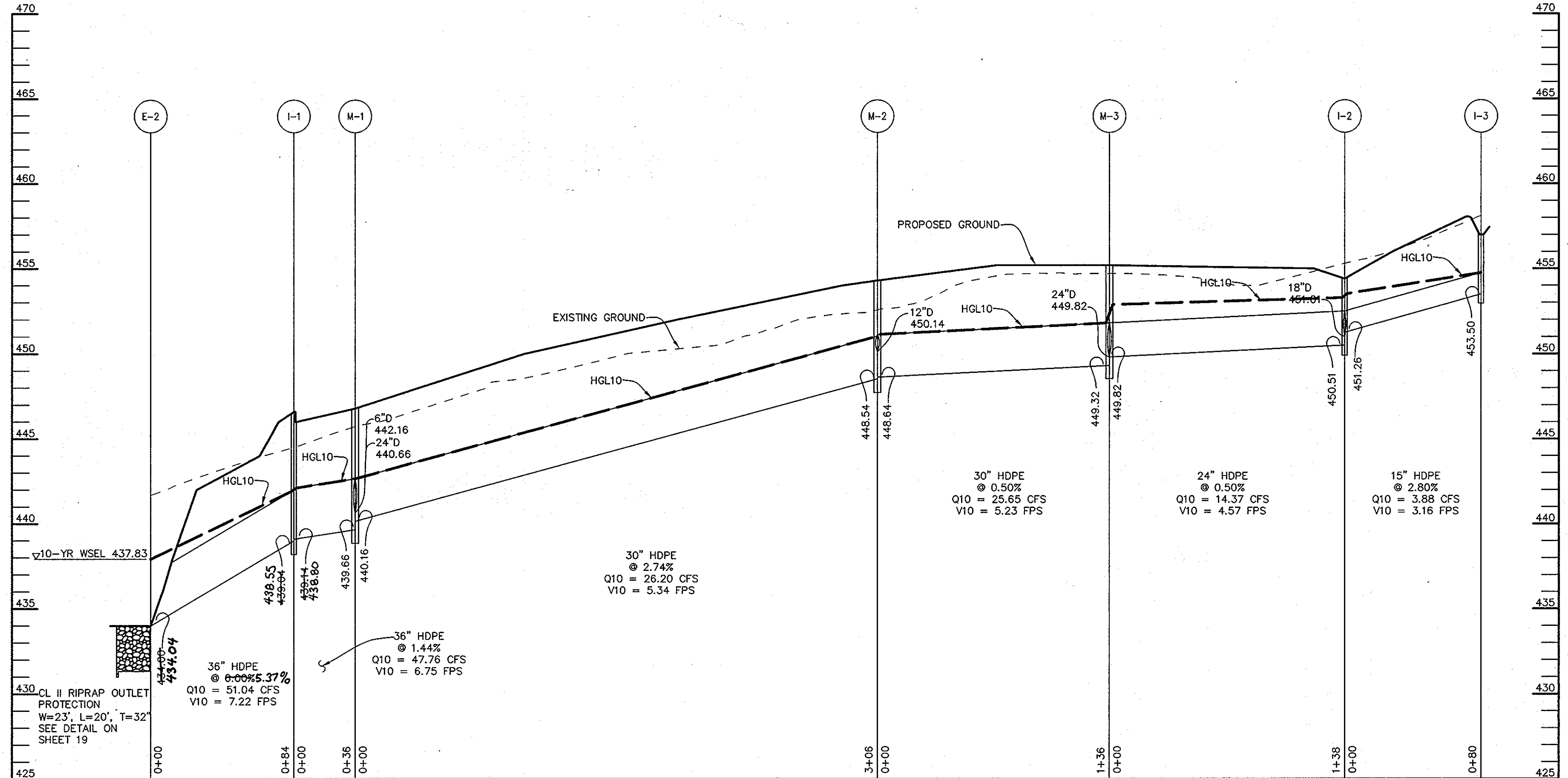
ROOF DRAIN PROFILE

SCALE:
HOR.-1"=50'
VERT.-1"=5'



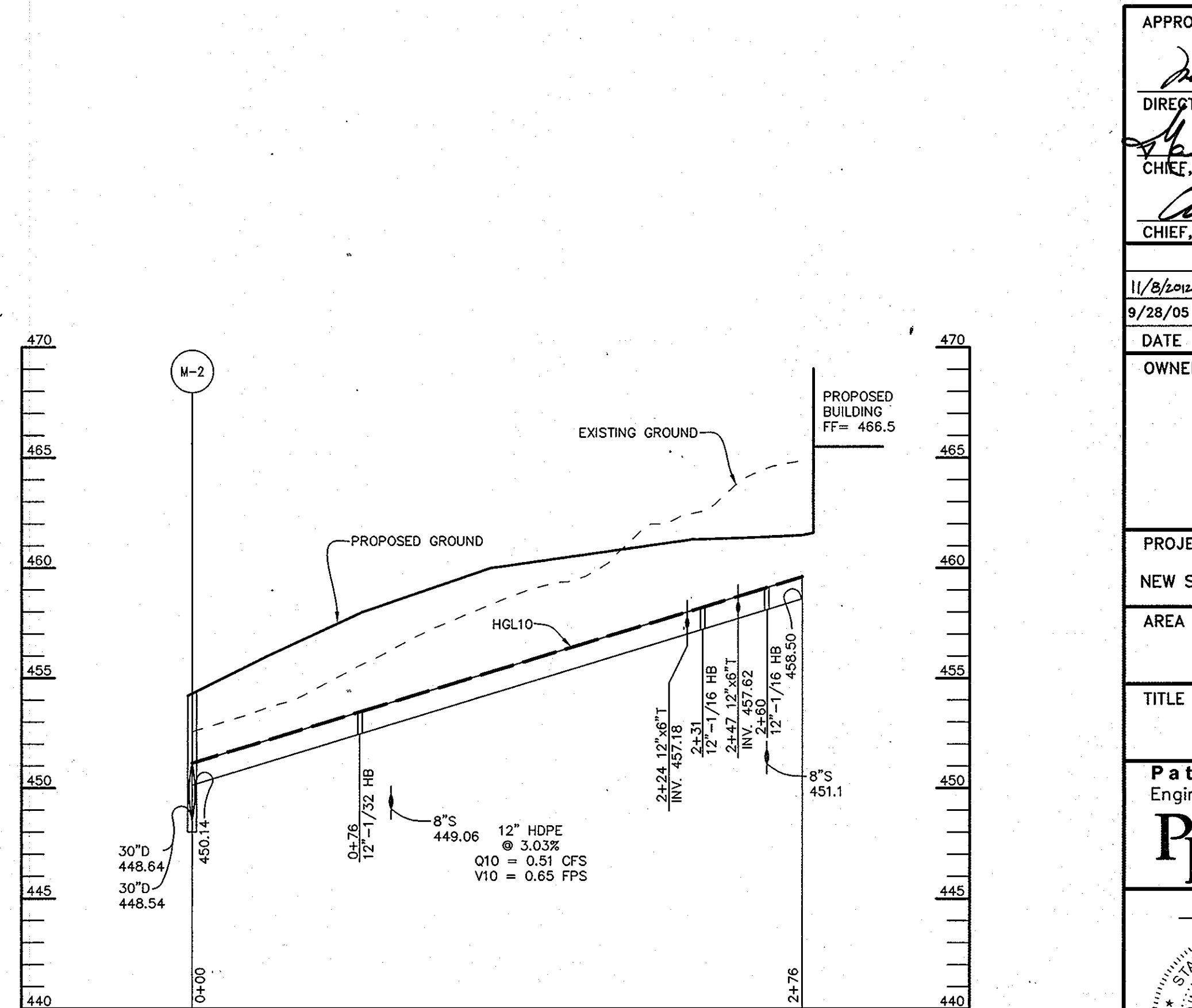
ROOF DRAIN PROFILE

SCALE:
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VERT.-1"=5'



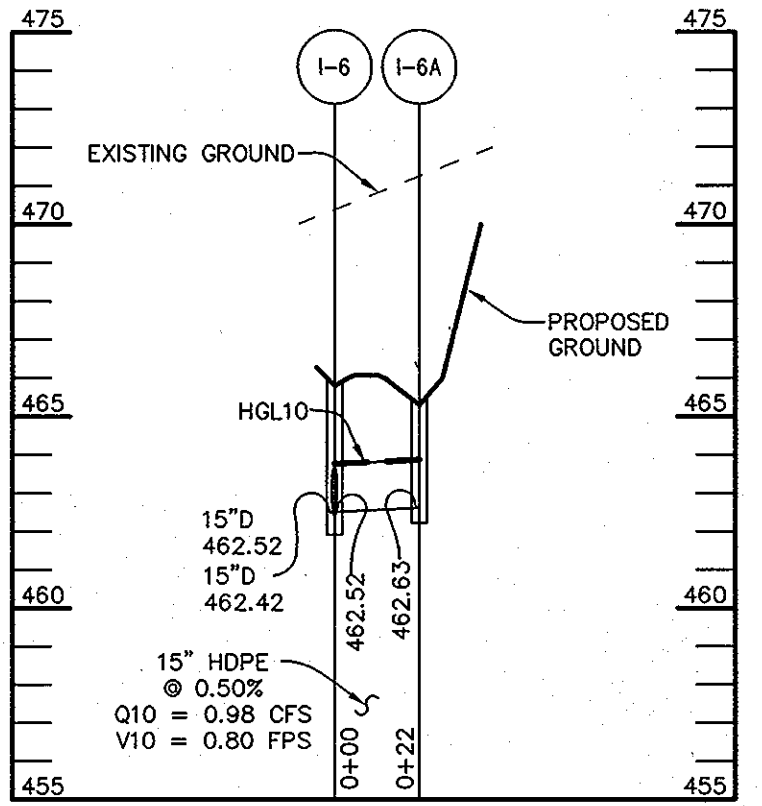
STORM DRAIN PROFILE

SCALE:
HOR.-1"=50'
VERT.-1"=5'



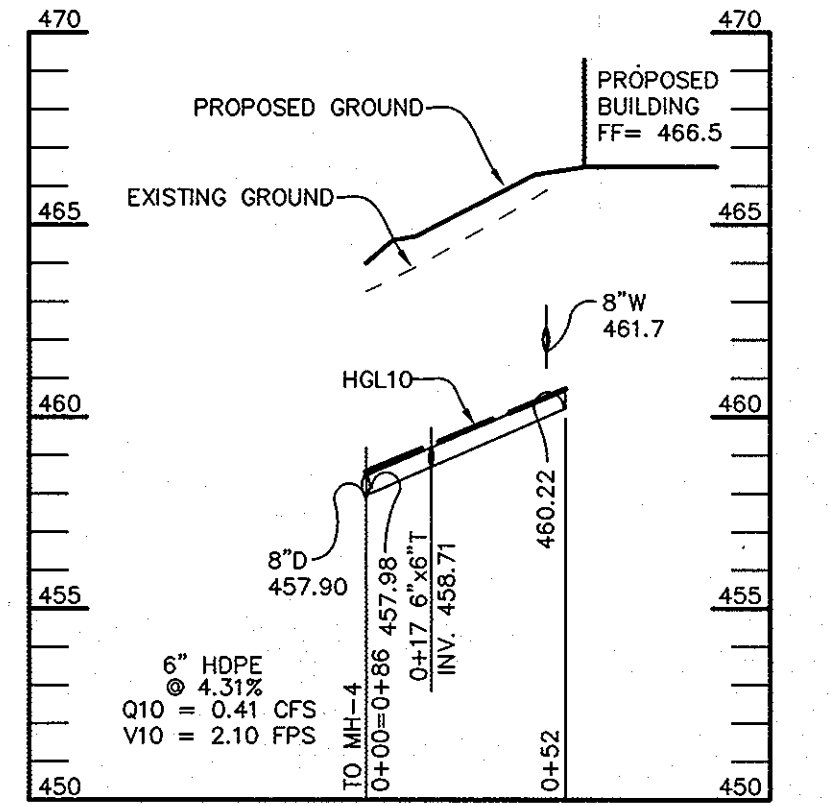
ROOF DRAIN PROFILE

SCALE:
HOR.-1"=50'
VERT.-1"=5'



STORM DRAIN PROFILE

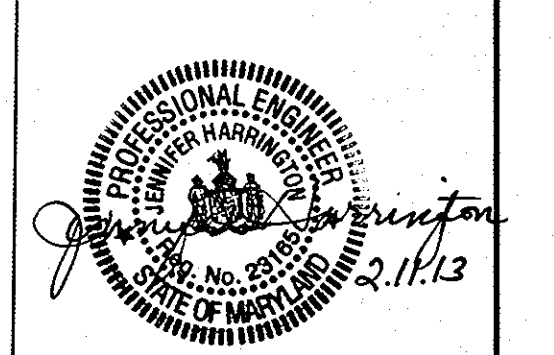
SCALE:
HOR.-1"=50'
VERT.-1"=5'



ROOF DRAIN PROFILE

SCALE:
HOR.-1"=50'
VERT.-1"=5'

THIS SEAL FOR REVISIONS MADE BY SITE RESOURCES, INC.



PROFESSIONAL ENGINEER
HOWARD COUNTY, MARYLAND
No. 29923
DATE: 2/11/13

AS-BUILT CERTIFICATION
DOMENICK W. COLANGELO #7200
DATE: 11/26/05

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>Mark Engel</i>	1/2/05
DIRECTOR	DATE
<i>Michael</i>	12/21/05
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>Cindy Thomas</i>	1/2/06
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE

11/8/05	4	ADDITION OF NEW GYMNASIUM/ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING
9/28/05	1	REVISED PROFILES TO REMOVE UNDERGROUND SWM FACILITIES
DATE	NO.	REVISION

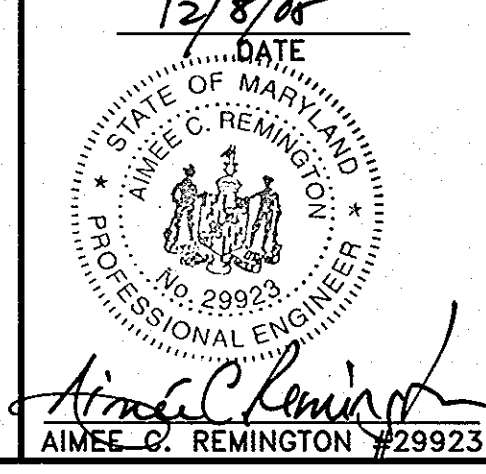
OWNER / DEVELOPER
MOST REVEREND WILLIAM H. KEELER
ARCHBISHOP OF BALTIMORE
P. O. BOX 155, SAINT LOUIS CHURCH
ROUTES 108 & 32
CLARKSVILLE, MD 21029
PHONE: 410-531-6040
C/O MONSIGNOR JOSEPH L. LUCA

PROJECT
ST. LOUIS CHURCH IMPROVEMENTS PHASE II

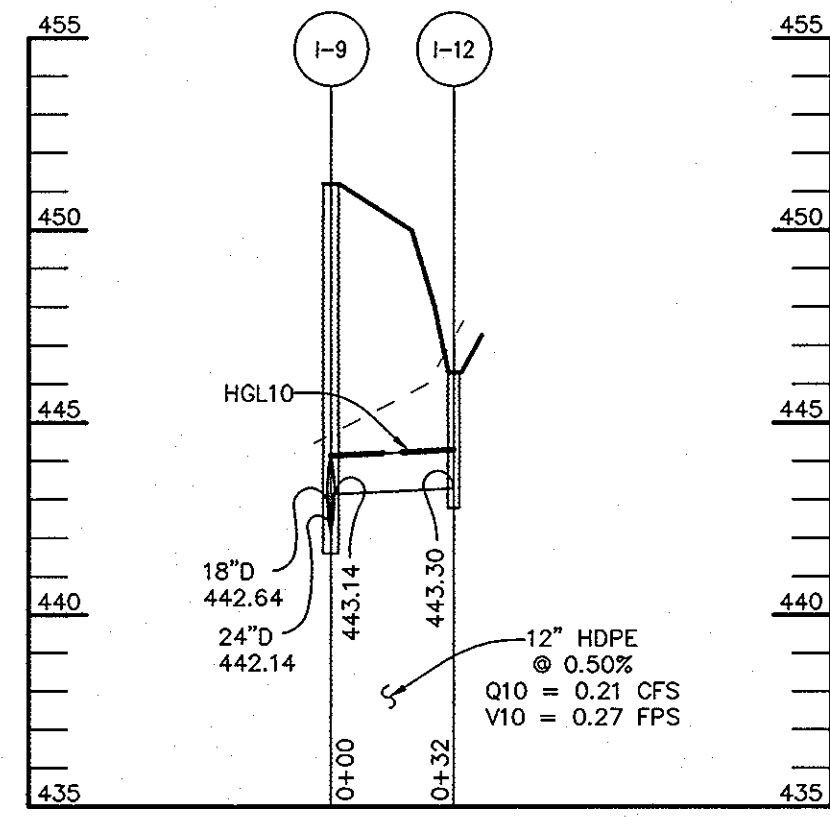
NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS
AREA
PARCELS 196, 214 AND 307 TAX MAP 34
5th ELECTION DISTRICT ZONED RR-DEO
CLARKSVILLE
HOWARD COUNTY, MARYLAND 21029

TITLE
REVISED STORM DRAIN PROFILES

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

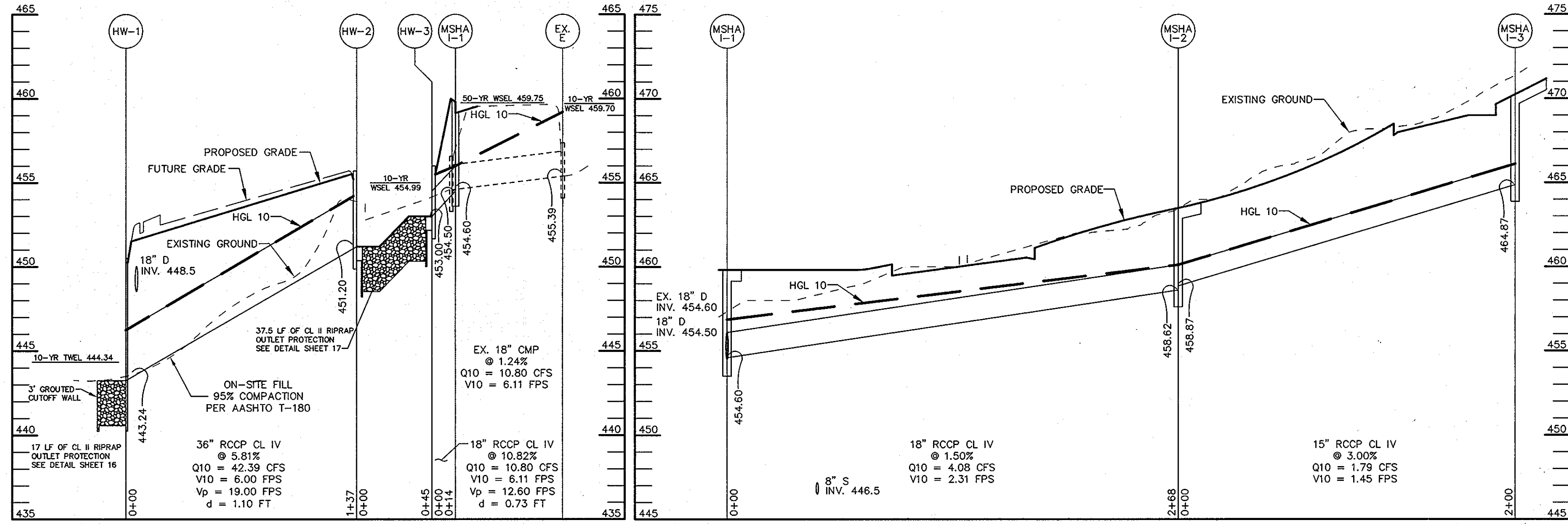


12/8/05
DATE
DRAWING FILE: REVISED SDP\c700st0.dwg
DESIGNED BY: A.C.R.
DRAWN BY: M.A.D.
PROJECT NO: 00370
DATE: DECEMBER 8, 2005
SCALE: AS SHOWN
DRAWING NO. 12 OF 35



STORM DRAIN PROFILE

SCALE:
HOR.-1"=50'
VERT.-1"=5'

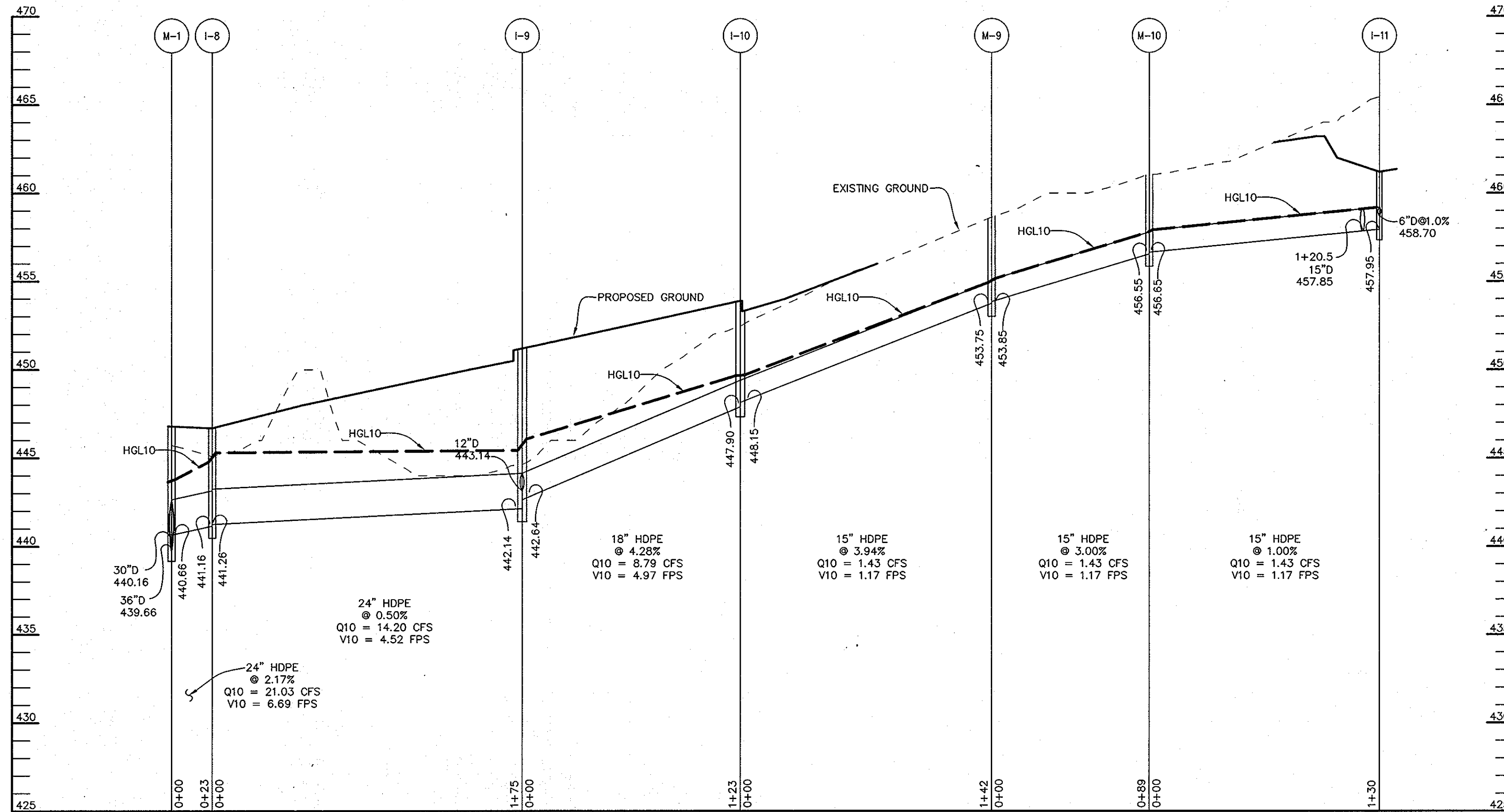


PROFILE

SCALE:
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VERT.-1"=5'

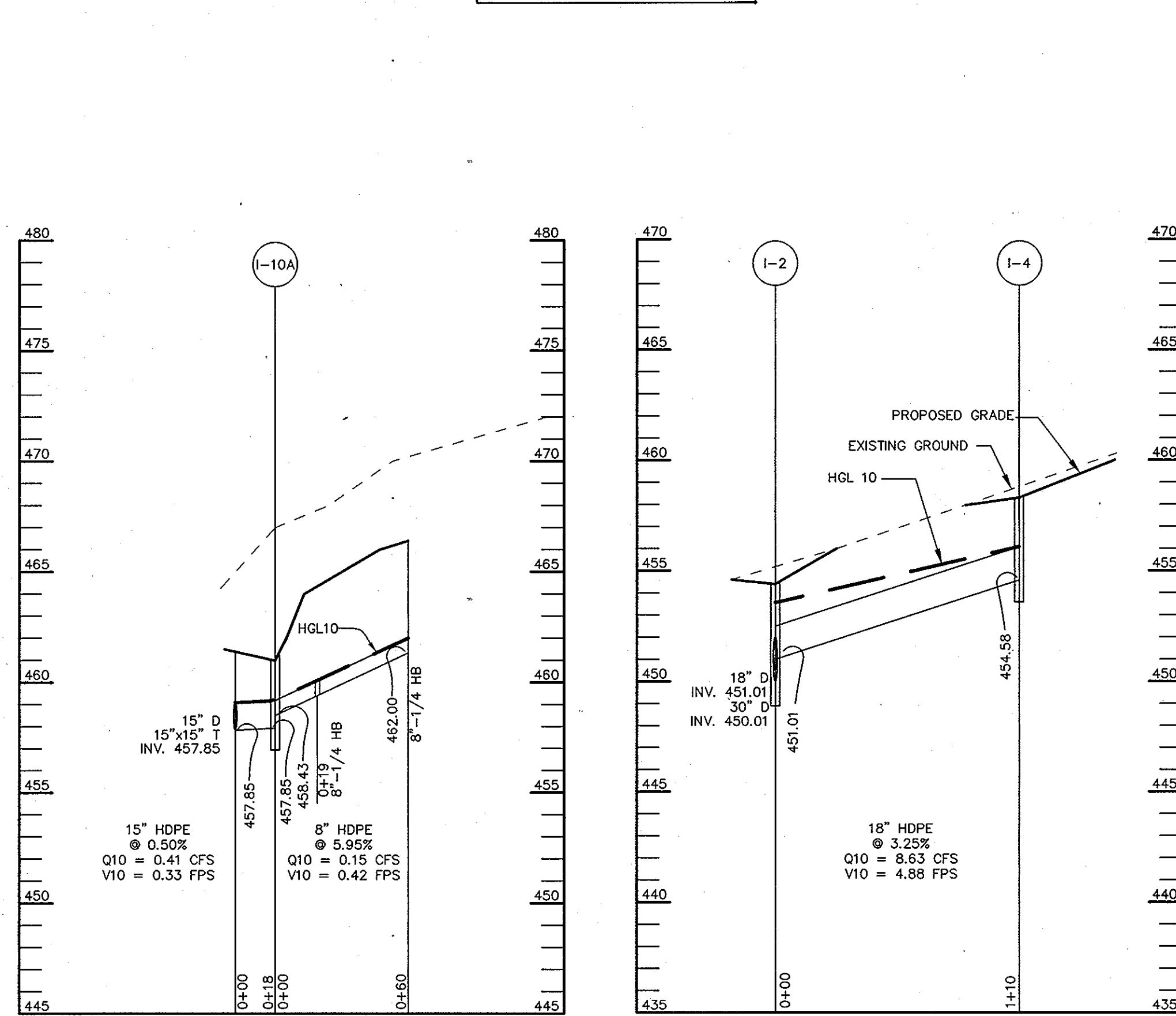
PROFILE

SCALE:
HOR.-1"=50'
VERT.-1"=5'



STORM DRAIN PROFILE

SCALE:
HOR.-1"=50'
VERT.-1"=5'



PROFILE

SCALE:
HOR.-1"=50'
VERT.-1"=5'

PROFILE

SCALE:
HOR.-1"=50'
VERT.-1"=5'

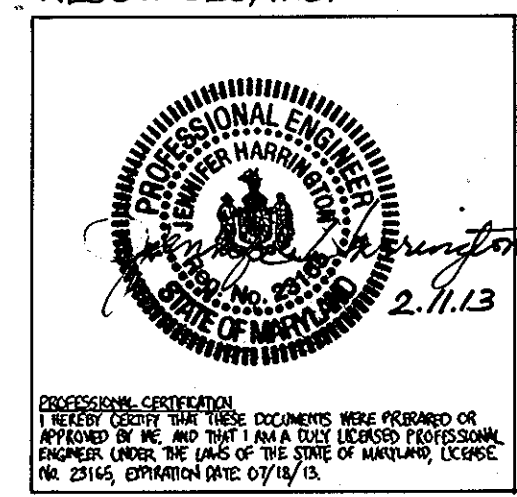
PIPE SCHEDULE

PIPE LENGTH	SIZE	TYPE
162	6"	HDPE
204	8"	HDPE
120	10"	HDPE
308	12"	HDPE
772	15"	HDPE
343	18"	HDPE
596	24"	HDPE
342	30"	HDPE
120	36"	HDPE
62	48"	ASTM C-361
200	15"	RCCP,CLIV
282	18"	RCCP,CLIV
137	36"	RCCP,CLIV

STRUCTURE SCHEDULE

STRUCTURE	TYPE	LOCATION	INV. IN	INV. OUT	TOP	REMARKS
I-1	A-15	N 559766.50 E 1327855.60	439.14 (36")	439.04 (36")	446.8	HOCO STD. DETAIL SD-4.02
I-2	'S'	N 560346 E 1327828	451.01 (18")	450.51 (24")	454.5	HOCO STD. DETAIL SD-4.32
I-3	'S'	N 560426 E 1327820	-	453.50 (15")	457.0	HOCO STD. DETAIL SD-4.32
I-4	'S'	N 560412 E 1327915	-	443.19 (21")	458.3	HOCO STD. DETAIL SD-4.32
I-5	'S'	N 560246 E 1328178	461.70 (15")	461.60 (15")	466.0	HOCO STD. DETAIL SD-4.32
I-6	'S'	N 560158 E 1328205	462.52 (15")	462.42 (15")	465.8	HOCO STD. DETAIL SD-4.32
I-7	'S'	N 560139 E 1328182	462.78 (10")	462.68 (15")	465.4	HOCO STD. DETAIL SD-4.32
I-8	DOUBLE 'S'	N 559748 E 1327893	441.26 (24")	441.16 (24")	446.7	HOCO STD. DETAIL SD-4.23
I-9	A-10	N 559732.05 E 1328069.09	442.64 (18")	442.14 (24")	451.2	HOCO STD. DETAIL SD-4.02
I-10	A-10	N 559746.35 E 1328186.33	448.15 (15")	447.90 (18")	453.9	HOCO STD. DETAIL SD-4.02
I-11	'S'	N 560058 E 1328190	-	457.95 (15")	461.2	HOCO STD. DETAIL SD-4.32
I-12	'S'	N 559709 E 1328082	-	443.30 (12")	446.3	HOCO STD. DETAIL SD-4.32
I-6A	'S'	N 560157 E 1328230	-	462.63 (15")	465.3	HOCO STD. DETAIL SD-4.32
I-10A	'S'	N 560064 E 1328209	458.43 (8")	457.85 (15")	461.0	HOCO STD. DETAIL SD-4.32
M-1	4'-0" DIA.	N 559770 E 1327890	446.66 (24")	446.16 (30")	446.8	HOCO STD. DETAIL G-5.11
M-2	4'-0" DIA.	N 560074 E 1327856	450.14 (12")	448.64 (30")	454.2	HOCO STD. DETAIL G-5.11
M-3	4'-0" DIA.	N 560209 E 1327841	449.82 (24")	449.32 (30")	455.2	HOCO STD. DETAIL G-5.11
M-4	4'-0" DIA.	N 560273 E 1328002	455.73 (10")	454.46 (24")	460.0	HOCO STD. DETAIL G-5.11
M-5	4'-0" DIA.	N 560285 E 1328092	460.94 (15")	460.84 (15")	465.7	HOCO STD. DETAIL G-5.11
M-6	4'-0" DIA.	N 560271 E 1328180	461.48 (15")	461.38 (15")	469.0	HOCO STD. DETAIL G-5.11
M-7	4'-0" DIA.	N 560242 E 1328216	461.99 (15")	461.89 (15")	470.0	HOCO STD. DETAIL G-5.11
M-8	4'-0" DIA.	N 560126 E 1328167	462.88 (6")	462.88 (6")	468.3	HOCO STD. DETAIL G-5.11
M-9	4'-0" DIA.	N 559870 E 1328257	453.85 (15")	453.75 (15")	458.6	HOCO STD. DETAIL G-5.11
M-10	4'-0" DIA.	N 559861 E 1328270	456.65 (15")	456.55 (15")	461.0	HOCO STD. DETAIL G-5.11
MSHA I-1	10" COG INLET	N 559699.16 E 1328380.43	454.60 (EX.18")	454.60 (18")	459.8	MSHA STD. DETAIL MD-374.51
MSHA I-2	15" COG INLET	N 559663.60 E 1328407.27	458.87 (15")	458.62 (18")	463.5	MSHA STD. DETAIL MD-374.51
MSHA I-3	20" COG INLET	N 560162.06 E 1328427.33	-	464.87 (15")	470.3	MSHA STD. DETAIL MD-374.51
E-1	48" CONCRETE	N 559486.43 E 1327702.90	438.90 (48")	-	-	HOCO STD. DETAIL SD-5.51
E-2	36" HDPE	N 559788.19 E 1327773.81	434.00 (36")	-	-	HOCO STD. DETAIL SD-5.51
HW-1	TYPE "C" HEADWALL	N 559670.38 E 1328185.50	443.24 (36")	-	-	SEE DETAIL SHEET 24
HW-2	TYPE "A" HEADWALL	N 559688.48 E 1328321.26	-	451.20 (36")	-	HOCO STD. DETAIL SD-5.11
HW-3	TYPE "A" HEADWALL	N 559695.24 E 1328364.87	453.00 (18")	-	-	HOCO STD. DETAIL SD-5.11

THIS SEAL FOR REVISIONS MADE BY SITE RESOURCES, INC.



NOTES: FOR END SECTIONS THE LOCATION IS CENTER AT END OF STRUCTURE. LOCATION OF 'S' AND YARD INLETS IS AT CENTER OF TOP GRATE AND CENTER AT TOP OF CURB FOR 'A' INLETS. MANHOLES ARE AT CENTER OF TOP COVER.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DIRECTOR: *Mark A. ...* DATE: 1/13/12

CHIEF, DEVELOPMENT ENGINEERING DIVISION: *...* DATE: 12/28/05

CHIEF, DIVISION OF LAND DEVELOPMENT: *...* DATE: 1/3/06

11/6/2012 1 ADDITION OF NEW GYMNASIUM/ACTIVITY CENTER TO THE EXISTING 5,000 SQ. FT. GYMNASIUM

9/28/05 2 REVISED PROFILES TO REMOVE UNDERGROUND SWM FACILITIES AND REVISED STRUCTURE AND PIPE SCHEDULE

8/26/04 1 THIS REVISED SHEET REPLACES EXISTING SHEET 13

OWNER / DEVELOPER: MOST REVEREND WILLIAM H. KEELER, ARCHBISHOP OF BALTIMORE, P. O. BOX 155, SAINT LOUIS CHURCH, ROUTES 108 & 32, CLARKSVILLE, MD 21029, PHONE: 410-531-6040, C/O MONSIGNOR JOSEPH L. LUCA

PROJECT: ST. LOUIS CHURCH IMPROVEMENTS PHASE II (11) (11) (11)

AREA: PARCELS 1962 2 1 AND 3 0 TAX MAP 34, 5th ELECTION DISTRICT, ZONED RR-DEO, CLARKSVILLE, HOWARD COUNTY, MARYLAND 21029

TITLE: REVISED STORM DRAIN PROFILES

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

DATE: 12/18/05

DRAWING FILE: REVISED SDP\0701SD.DWG

DESIGNED BY: A.C.R.

DRAWN BY: M.A.D.

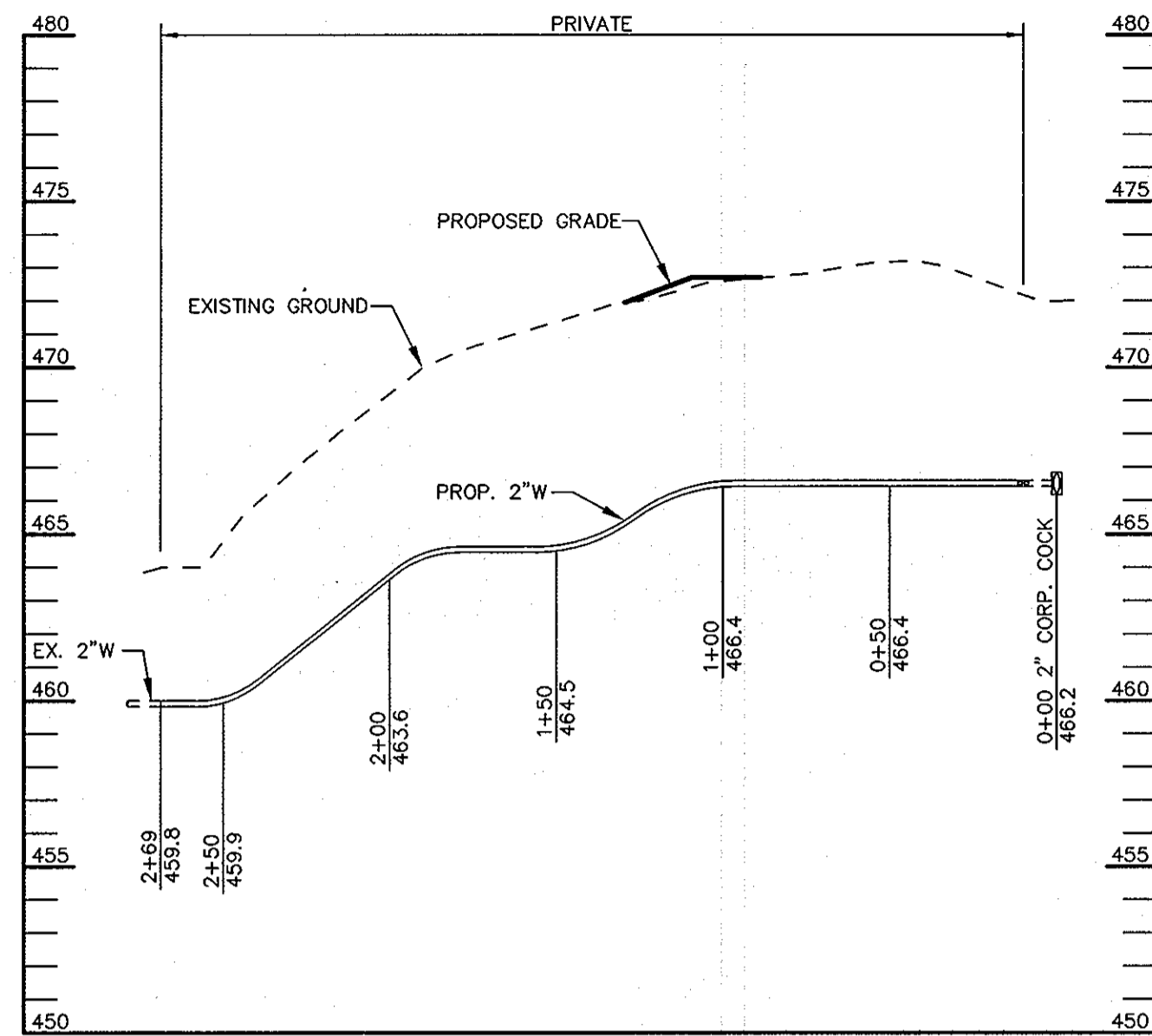
PROJECT NO: 00370

DATE: DECEMBER 8, 2005

SCALE: AS SHOWN

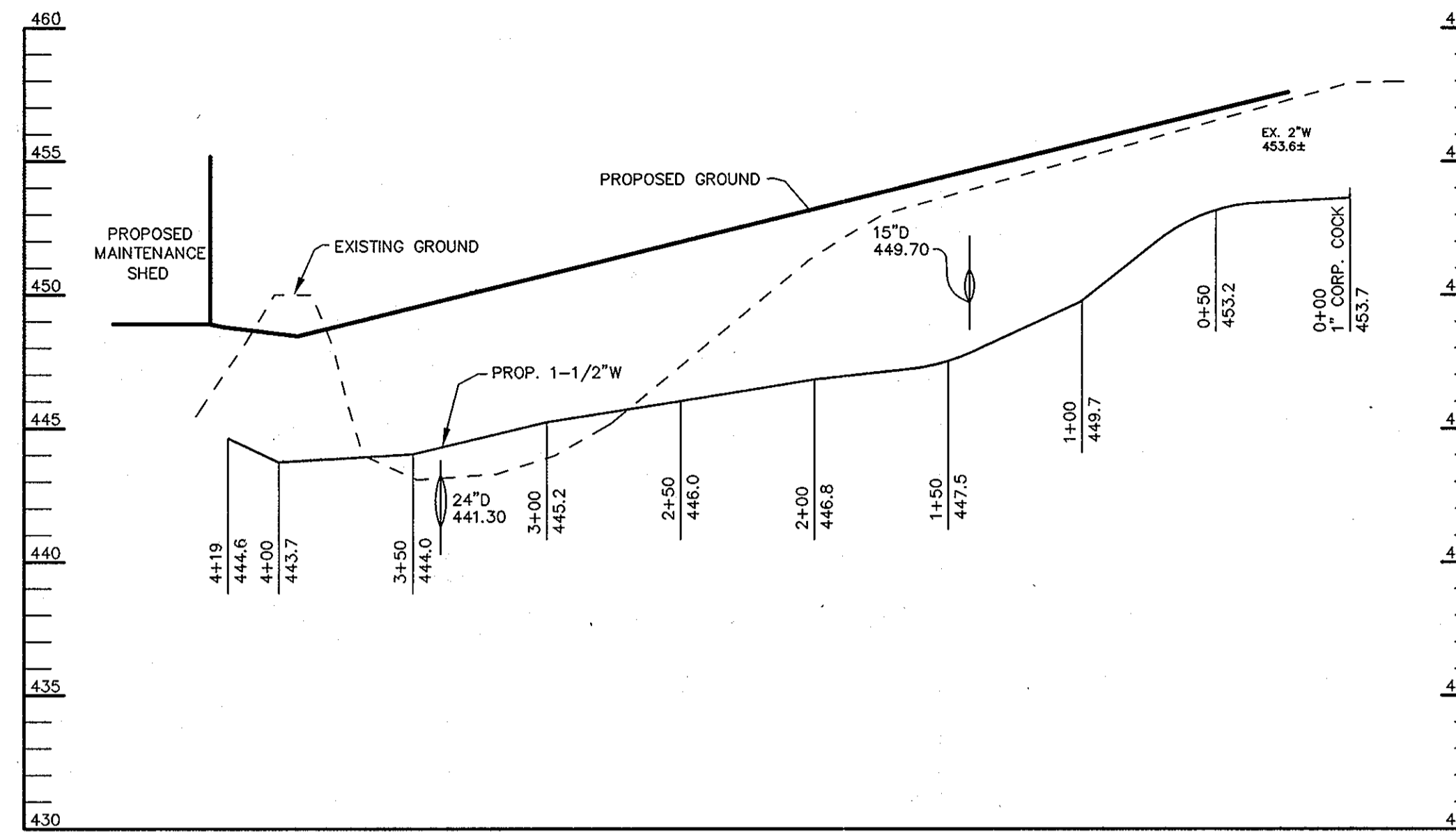
DRAWING NO. 13 OF 35

AIMEE C. REMINGTON #29923



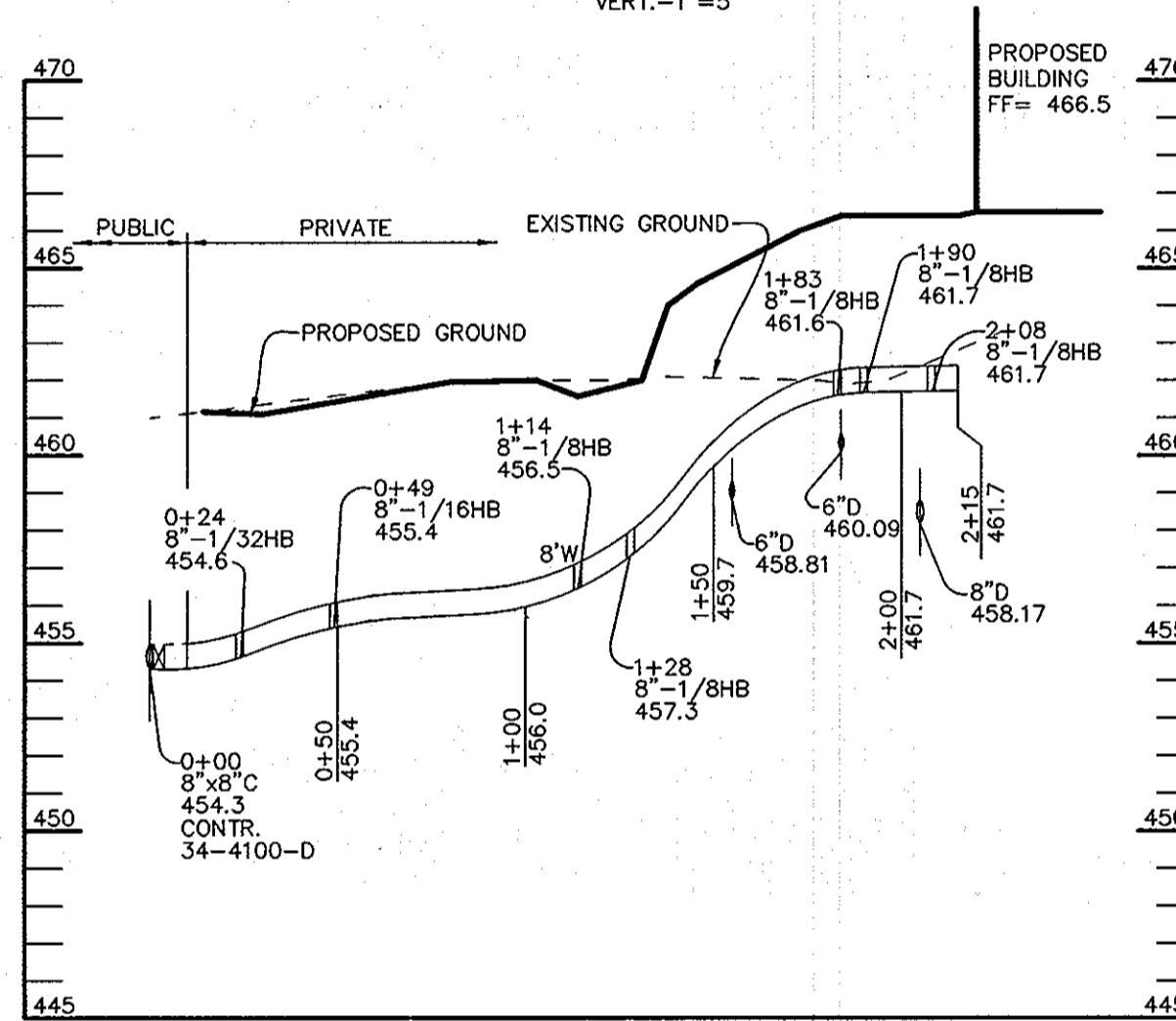
WATER PROFILE #2

SCALE :
HOR. - 1" = 50'
VERT. - 1" = 5'



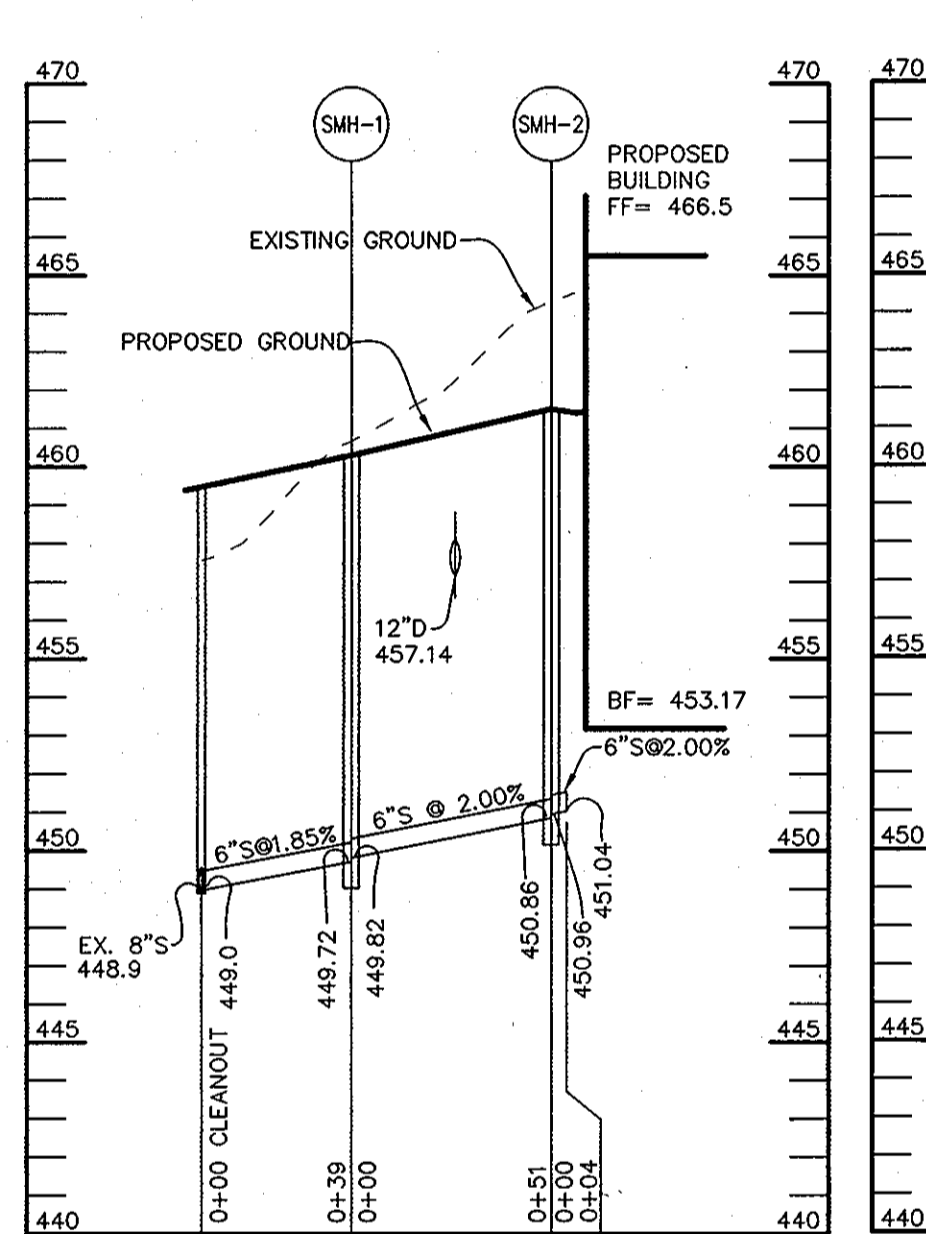
WATER PROFILE

SCALE :
HOR. - 1" = 50'
VERT. - 1" = 5'



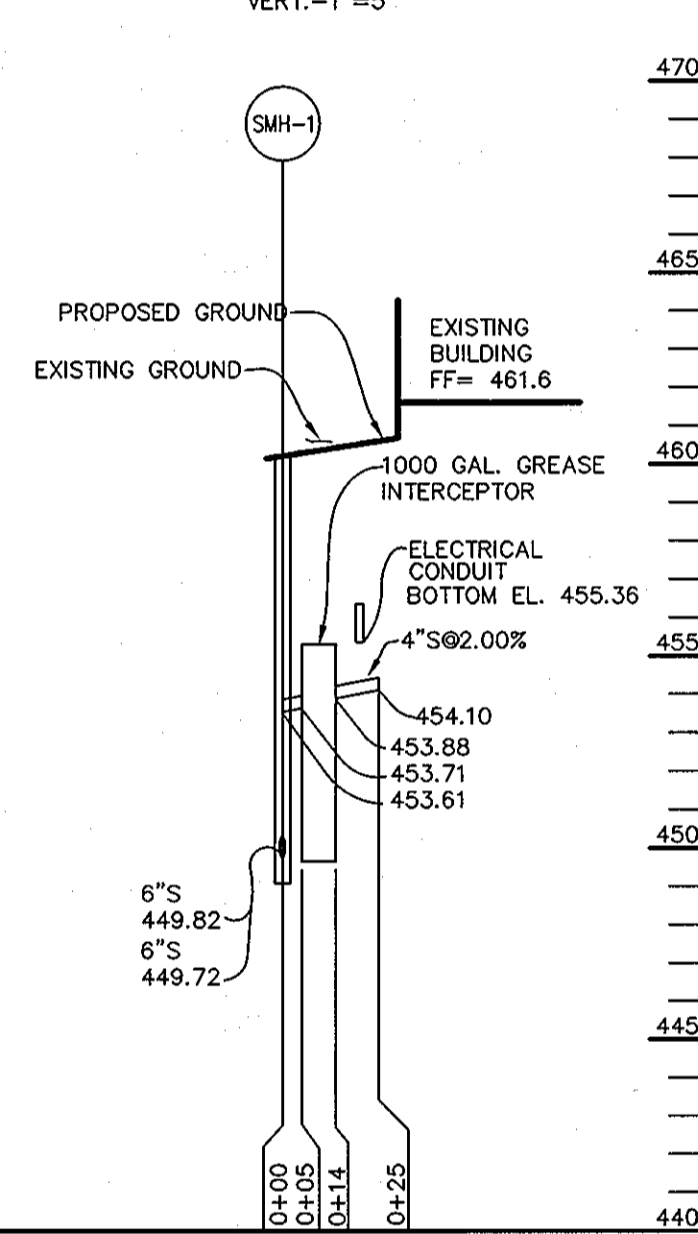
WATER PROFILE

SCALE :
HOR. - 1" = 50'
VERT. - 1" = 5'



SEWER PROFILE

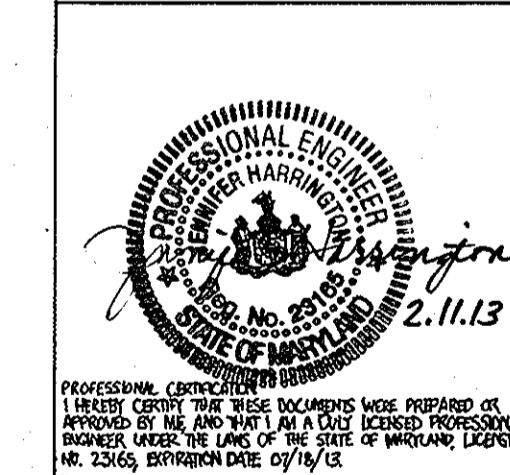
SCALE :
HOR. - 1" = 50'
VERT. - 1" = 5'



SEWER PROFILE

SCALE :
HOR. - 1" = 50'
VERT. - 1" = 5'

THIS SEAL FOR A REVISIONS MADE BY SITE RESOURCES, INC.



APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>Mark L. ...</i>	1/16/11
DIRECTOR	DATE
<i>...</i>	12/21/05
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>...</i>	1/3/06
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
11/8/2005 4	ADDITION OF NEW CATHEDRAL ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING
9/28/05 2	REVISED WATER PROFILE & REMOVED STORM DRAIN PROFILES
8/26/04 1	THIS SHEET REPLACES EXISTING SHEET 14
DATE	NO. REVISION
OWNER / DEVELOPER	
MOST REVEREND WILLIAM H. KEELER ARCHBISHOP OF BALTIMORE P. O. BOX 155, SAINT LOUIS CHURCH ROUTES 108 & 32 CLARKSVILLE, MD 21029 PHONE: 410-531-6040 C/O MONSIGNOR JOSEPH L. LUCA	
PROJECT	
ST. LOUIS CHURCH IMPROVEMENTS PHASE II NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS 12500 MD ROUTE 108	
AREA	
PARCELS 196, 219 AND 200 TAX MAP 34 5th ELECTION DISTRICT ZONED RR-DEO CLARKSVILLE HOWARD COUNTY, MARYLAND 21029	
TITLE	
REVISED PROFILES	
Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
P_H_R+A	
DRAWING FILE: \REVISED SDP\0702STO.DWG	
DESIGNED BY : A.C.R.	
DRAWN BY: M.A.D.	
PROJECT NO : 00370	
DATE: DECEMBER 8, 2005	
SCALE : AS SHOWN	
DRAWING NO. 14 OF 35	

30.0 - DUST CONTROL

DEFINITION
CONTROLLING DUST BLOWING AND MOVEMENT ON CONSTRUCTION SITES AND ROADS.

PURPOSE
TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON AND OFF-SITE DAMAGE, HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.

CONCERNS WHERE PRACTICE APPLIES
THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT.

SPECIFICATIONS

TEMPORARY METHODS

- MULCHES - SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE CRUMPED OR TACKED TO PREVENT BLOWING.
- VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER.
- TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE, THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEING PLOWING IN WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12' APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
- IRRIGATION - THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOSTLY WET. AT NO TIME SHOULD THE SITE BE IRRIGATED TO THE POINT THAT RUNOFF BEGINS TO FLOW.
- BARRIERS - SOLID BOARD FENCES, SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALES, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 10 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING SOIL BLOWING.
- CALCIUM CHLORIDE - APPLY AT RATES THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

PERMANENT METHODS

- PERMANENT VEGETATION - SEE STANDARDS FOR PERMANENT VEGETATIVE COVER, AND PERMANENT STABILIZATION WITH SOIL. EXISTING TREES OR LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.
- TOPSOILING - COVERING WITH LESS ERODIBLE SOIL MATERIALS. SEE STANDARDS FOR TOPSOILING.
- STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

REFERENCES

- AGRICULTURE HANDBOOK 346. WIND EROSION FORCES IN THE UNITED STATES AND THEIR USES IN PREDICTING SOIL LOSS.
- AGRICULTURE INFORMATION BULLETIN 354. HOW TO CONTROL WIND EROSION. USDA-ARS.

DETAIL 33 - SUPER SILT FENCE

NOTE: FENCE POST SPACING SHALL NOT EXCEED 10' CENTER TO CENTER

Construction Specifications

- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway (SHA) Details for Chain Link Fencing. The SHA specifications for a 6 foot fence shall be used, substituting 40' fabric and 6 foot length posts.
- The posts do not need to be set in concrete.
- Chain link fence shall be fastened securely to the fence posts with wire ties or staples. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except at the ends of the fence. The chain link fencing shall be six (6) gauge or heavier.
- Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
- Filter cloth shall be embedded a minimum of 8" into the ground.
- When two sections of geotextile fabric adjoin each other, they shall be overlapped by 6" and folded.
- Maintenance shall be performed as needed and all bulldozers removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.

DETAIL 15 - RISER BASE DETAIL

Construction Specifications

- A concrete base 18" thick with the riser embedded 9" in the base.
- A 1/4" minimum thickness steel plate attached to the riser by a continuous weld around the circumference of the riser to form a watertight connection. The plate shall have 2" of stone, gravel, or compacted earth placed on it to prevent flotation. In either case, each side of the square base shall be twice the riser diameter.

Note: For risers greater than ten feet high computations shall be made to design a base which will prevent flotation. The minimum factor of safety shall be 1.20 (downward forces = 1.20 x upward forces).

DETAIL 17 - TYPES OF COUPLERS FOR CORRUGATED STEEL PIPE (ALL CONNECTOR BANDS REQUIRE NEOPRENE GASKETS)

Construction Specifications

NOTE: UNDER NO CIRCUMSTANCES WILL THE DIMPLE (UNIVERSAL) CONNECTOR BAND BE ACCEPTABLE FOR USE IN ANY SEDIMENT CONTROL OR STORMWATER MANAGEMENT STRUCTURE.

DETAIL 1 - EARTH DIKE

Construction Specifications

- All temporary earth dikes shall have unimpaired positive grade to an outlet. Spot elevations may be necessary for grades less than 1%.
- Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.
- Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area of a non-erosive velocity.
- All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.
- The dike shall be excavated or shaped to line, grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.
- Fill shall be compacted by earth moving equipment.
- All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.
- Inspection and maintenance must be provided periodically and after each rain event.

THIS SEAL FOR REVISIONS MADE BY SITE RESOURCES, INC.

DETAIL 16 - CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE

Construction Specifications

- Length - minimum of 50' (*30' for single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single family residences to use geotextile.
- Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SDE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

DETAIL 18 - SEDIMENT BASIN BAFFLES

BAFFLE DETAIL

POSTS MINIMUM 1 1/4" SQUARE OR 2" ROUND SET AT LEAST 3" INTO THE GROUND

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

Construction Specifications

- Length - minimum of 50' (*30' for single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single family residences to use geotextile.
- Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
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- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

DETAIL 14 - TYPICAL ANTI-SEEP COLLARS

ANTI-SEEP COLLAR DESIGN

COLLAR FOR FLANGE JOINT PIPE

DETAIL 16 CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE (continued)

Riser Diam. in.	Trash Rack Cyl. in. gage	Thick. in.	Minimum Support Bar	Minimum Top Thickness	Stiffener
12	18	16	#6 Rebar	16 ga.	---
15	21	16	---	---	---
18	27	16	---	---	---
21	30	16	---	---	---
24	36	16	---	---	---
27	42	16	---	---	---
36	54	14	#8 Rebar	12 ga.	---
42	60	14	---	---	---
48	72	12	1-1/4" pipe or 1-1/4 x 1/4 x/4 angle	10 ga.	---
54	78	12	---	---	---
60	90	12	1-1/2" pipe or 1-1/2 x 1/2 x/4 angle	8 ga.	---
68	96	10	2" pipe or 2x2x1/8 angle	8 ga.	2x2x1/4 w/stiffener angle
72	102	10	---	---	2-1/2x2-1/2x/4 angle
78	114	10	2-1/2" pipe or 2-1/2 x 1/2 x/4 angle	---	---
84	120	10	2-1/2x2-1/2x/4 angle	---	2-1/2 x2-1/2x/4 5/16 angle

Note: The above trash rack and anti-vortex device information is only for corrugated metal pipe. Concrete risers must meet the requirements of MD 378.

BY THE DEVELOPER:

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Cheryl J. Reid 12/23/03
DEVELOPER DATE

BY THE ENGINEER:

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Cheryl J. Reid 12.23.03
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

Jim Luca 1/16/04
NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

John A. Smith 1/16/04
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Mark A. Coffer 5/12/04
DIRECTOR DATE

Chris J. Reid 1/22/04
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cynthia Krumholz 5/14/04
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

11/8/2012 4 ADDITION OF NEW GYMNASIUM/ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING

DATE NO. REVISION

OWNER / DEVELOPER
MOST REVEREND WILLIAM H. KEELER
ARCHBISHOP OF BALTIMORE
P. O. BOX 155, SAINT LOUIS CHURCH
ROUTES 108 & 32
CLARKSVILLE, MD 21029
PHONE: 410-531-6040
C/O MONSIGNOR JOSEPH L. LUCA

PROJECT
ST. LOUIS CHURCH IMPROVEMENTS PHASE II
NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS
12500 MD ROUTE 108

AREA
PARCELS 196.21 AND 303 TAX MAP 34
5th ELECTION DISTRICT ZONED RR-DEO
CLARKSVILLE
HOWARD COUNTY, MARYLAND 21029

TITLE
SEDIMENT CONTROL DETAILS

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
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12-23-03 DATE
DRAWING FILE: C200ESC.DWG
DESIGNED BY: J.W.C.
DRAWN BY: D.R.H.
PROJECT NO: 00370
DATE: JUNE 9, 2003
SCALE: AS SHOWN
DRAWING NO. 15 OF 35
CHRISTOPHER J. REID #11949

DETAIL 20A - REMOVABLE PUMPING STATION

Construction Specifications

- The outer pipe should be 48" dia. or shall, in any case, be at least 4" greater in diameter than the center pipe. The outer pipe shall be wrapped with 1/2" hardware cloth to prevent backfill material from entering the perforations.
- After installing the outer pipe, backfill around outer pipe with 2" aggregate or clean gravel.
- The inside stand pipe (center pipe) should be constructed by perforating a corrugated or PVC pipe between 1/2" and 3/4" in diameter. The perforations shall be 1/2" x 6" slots or 1" diameter holes 6" on center. The center pipe shall be wrapped with 1/2" hardware cloth first, then wrapped again with Geotextile Class C.
- The center pipe shall extend 12" to 18" above the anticipated water surface elevation or riser crest elevation when dewatering a basin.

DETAIL 26 - ROCK OUTLET PROTECTION II

Construction Specifications

- The subgrade for the filter, rip-rap, or gabion shall be prepared to the required lines and grades. Any fill required in the subgrade shall be compacted to a density of approximately that of the surrounding undisturbed material.
- The rock or gravel shall conform to the specified grading limits when installed respectively in the rip-rap or filter.
- Geotextile shall be protected from punching, cutting, or tearing. Any damage other than on occasional small hole shall be repaired by placing another piece of geotextile over the damaged part or by completely replacing the geotextile. All overlaps whether for repairs or for joining two pieces of geotextile shall be a minimum of one foot.
- Stone for the rip-rap or gabion outlets may be placed by equipment. They shall be constructed to the full course thickness in one operation and in such a manner as to avoid displacement of underlying material. The stone for rip-rap or gabion outlets shall be delivered and placed in a manner that will ensure that it is reasonably homogeneous with the smaller stones and spots filling the voids between the larger stones. Rip-rap shall be placed in a manner to prevent damage to the filter blanket or geotextile. Hand placement will be required to the extent necessary to prevent damage to the permanent works.
- The stone shall be placed so that it blends in with the existing ground. If the stone is placed too high then the flow will be forced out of the channel and scour adjacent to the stone will occur.

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Construction Specifications

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DETAIL 27 - ROCK OUTLET PROTECTION III

Construction Specifications

- The subgrade for the filter, rip-rap, or gabion shall be prepared to the required lines and grades. Any fill required in the subgrade shall be compacted to a density of approximately that of the surrounding undisturbed material.
- The rock or gravel shall conform to the specified grading limits when installed respectively in the rip-rap or filter.
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ROCK OUTLET PROTECTION III

Construction Specifications

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- The rock or gravel shall conform to the specified grading limits when installed respectively in the rip-rap or filter.
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11/8/2012 4 ADDITION OF NEW GYMNASIUM/ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING

DATE NO. REVISION

OWNER / DEVELOPER
MOST REVEREND WILLIAM H. KEELER
ARCHBISHOP OF BALTIMORE
P. O. BOX 155, SAINT LOUIS CHURCH
ROUTES 108 & 32
CLARKSVILLE, MD 21029
PHONE: 410-531-6040
C/O MONSIGNOR JOSEPH L. LUCA

PROJECT
ST. LOUIS CHURCH IMPROVEMENTS PHASE II
NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS
12500 MD ROUTE 108

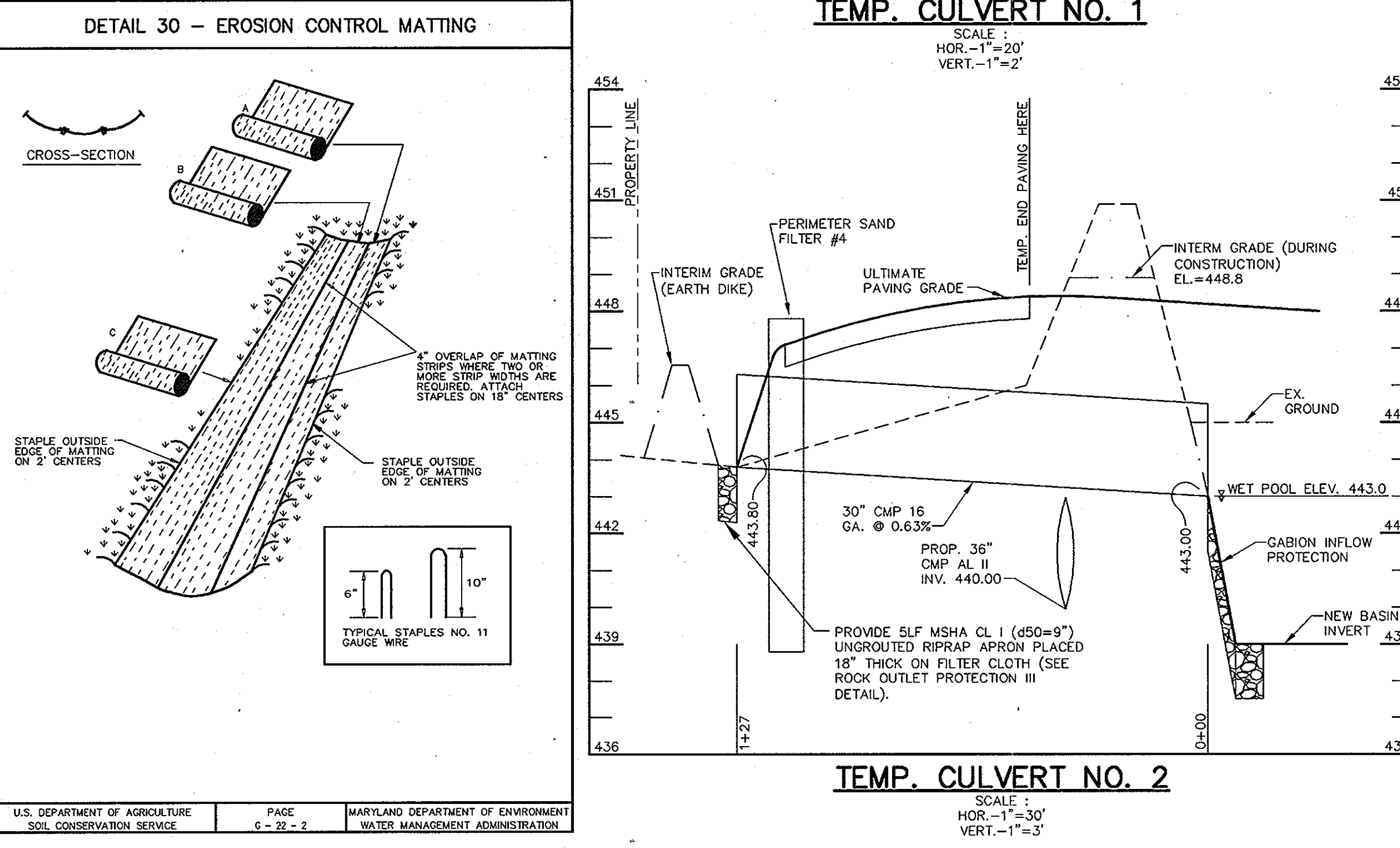
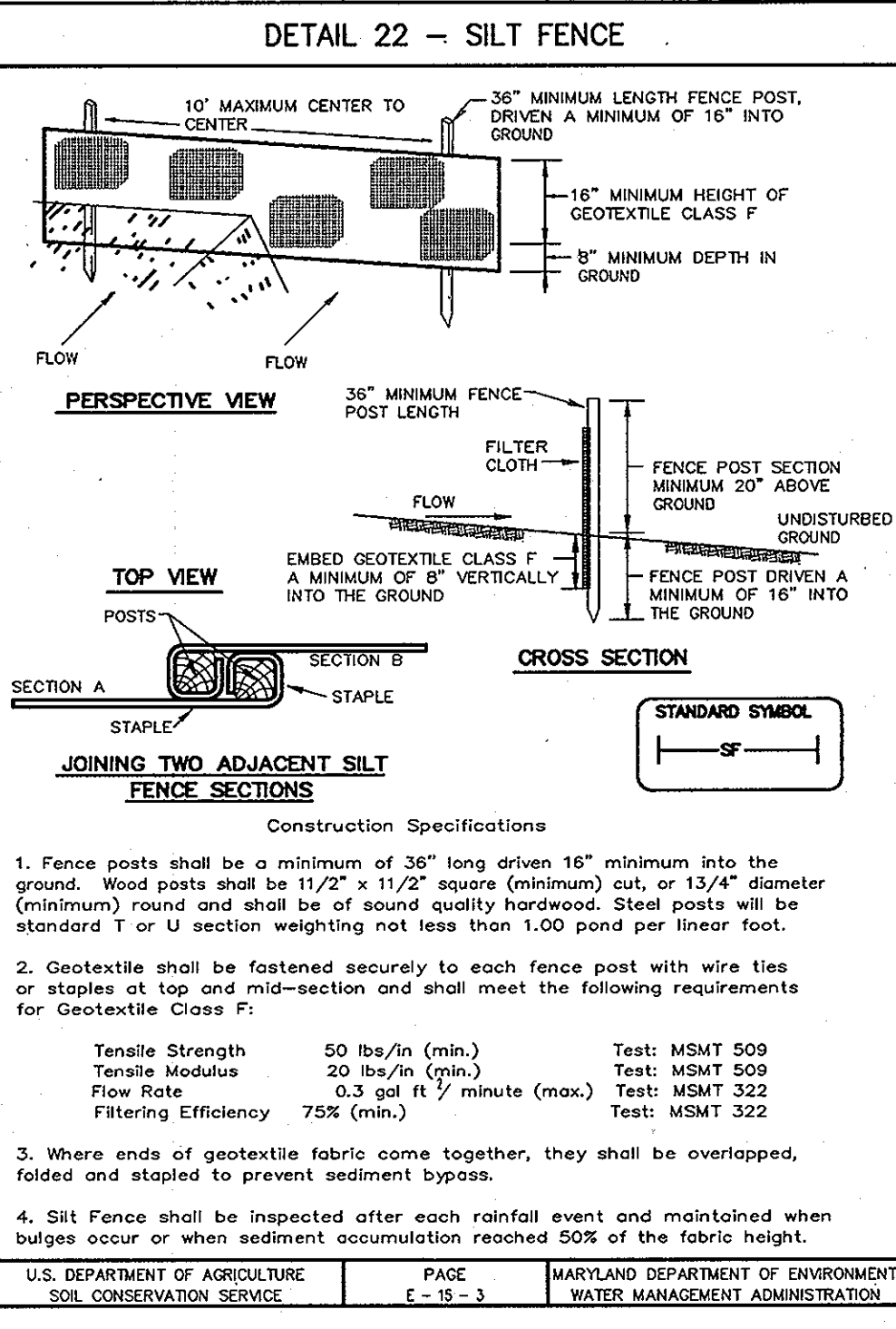
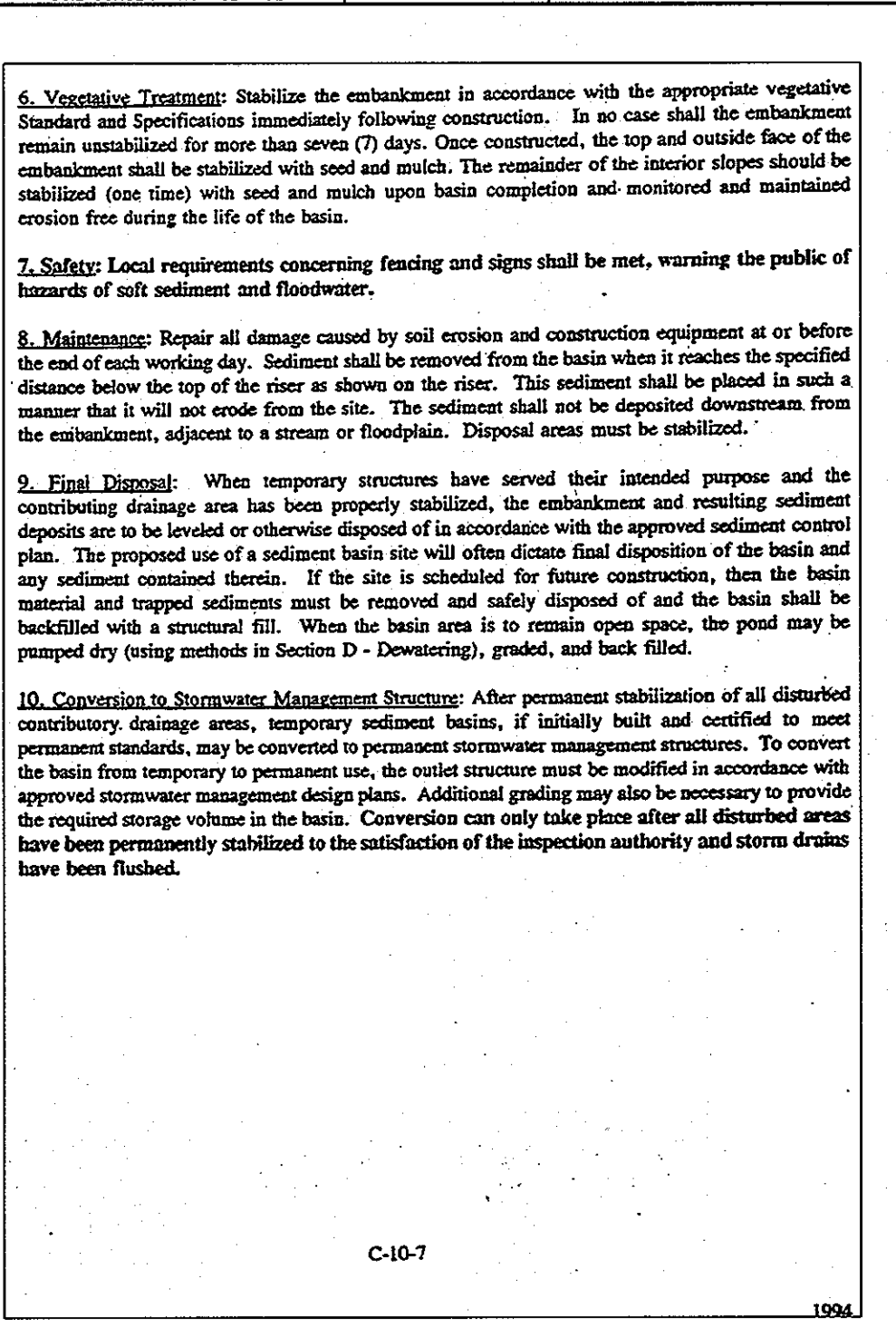
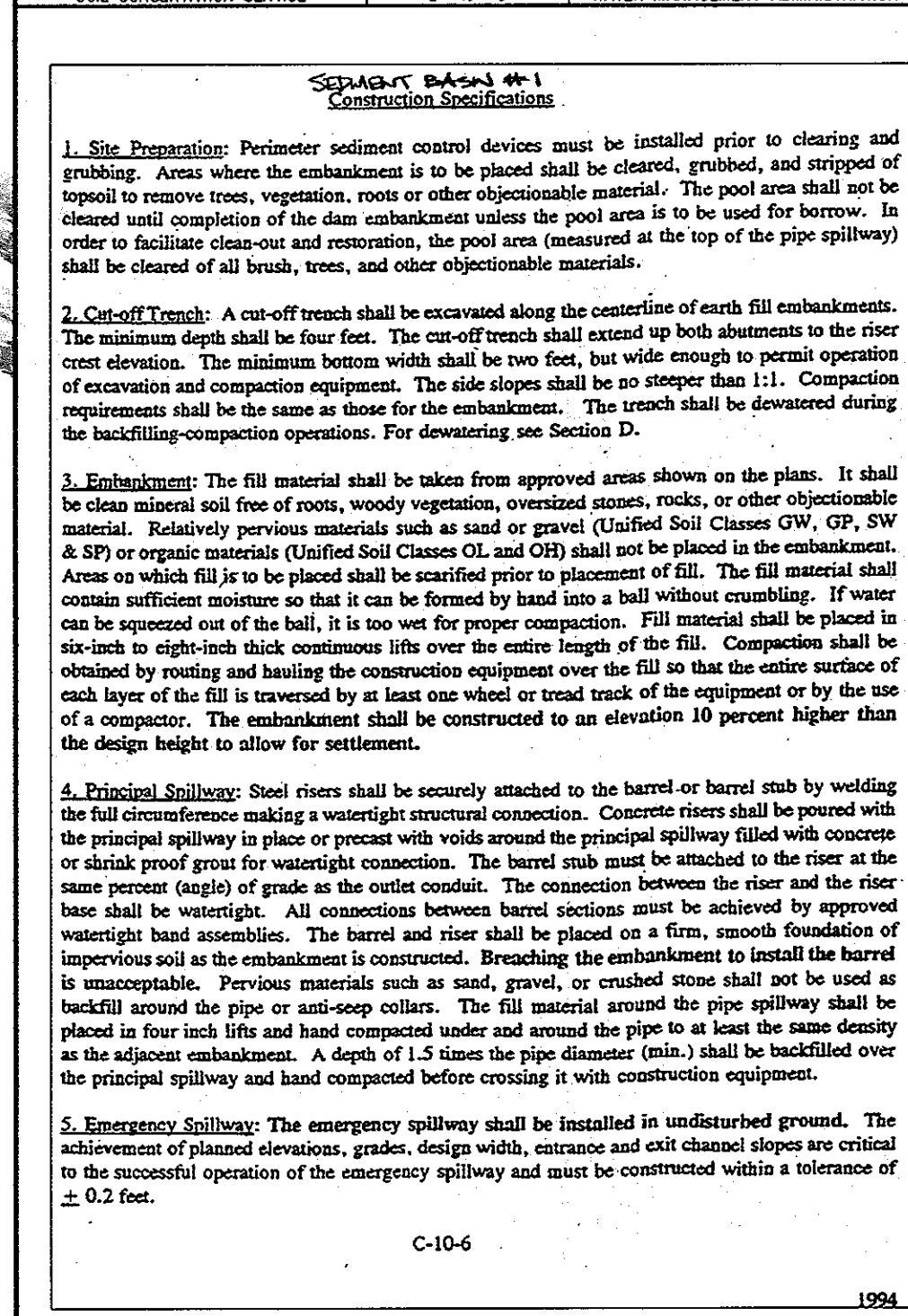
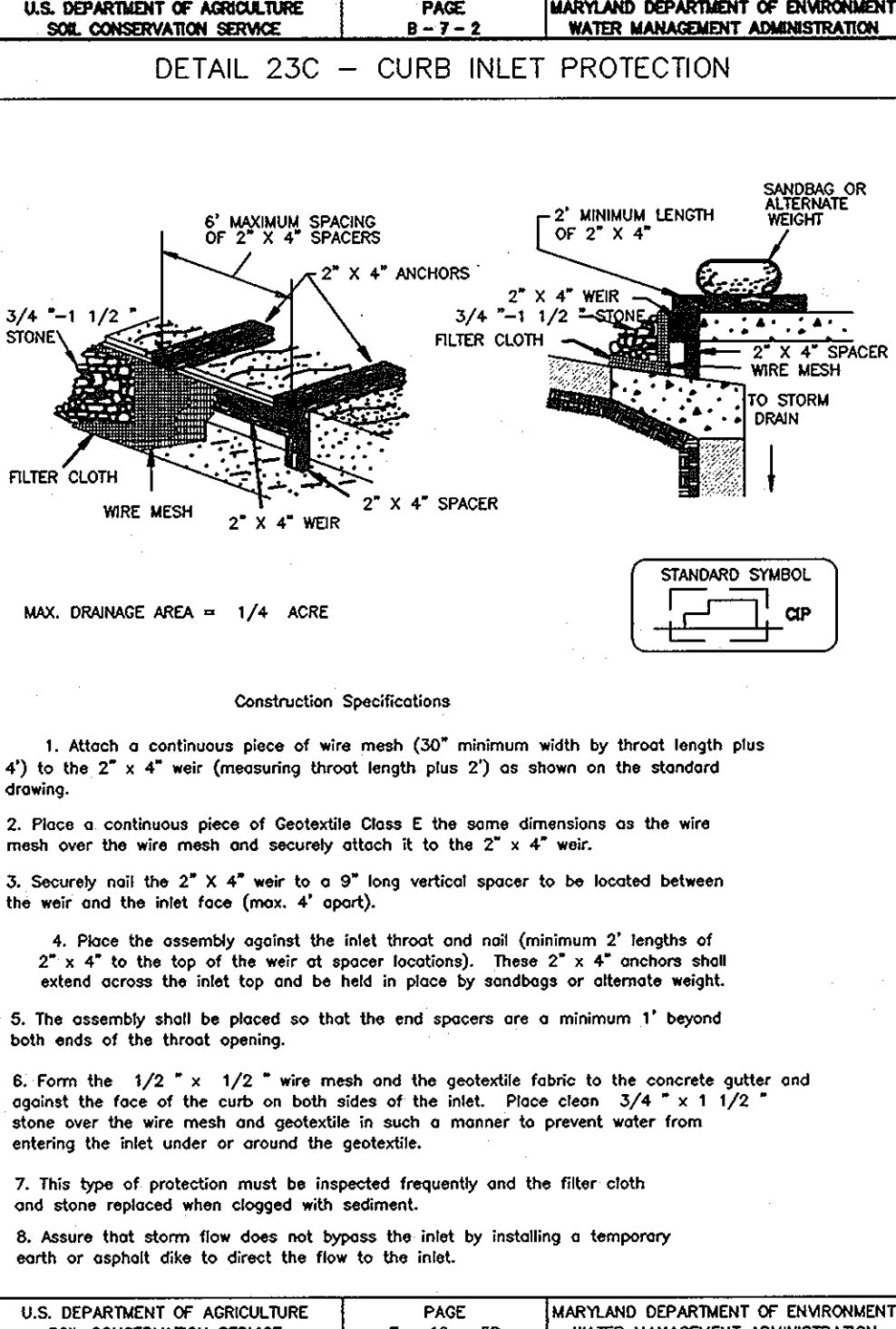
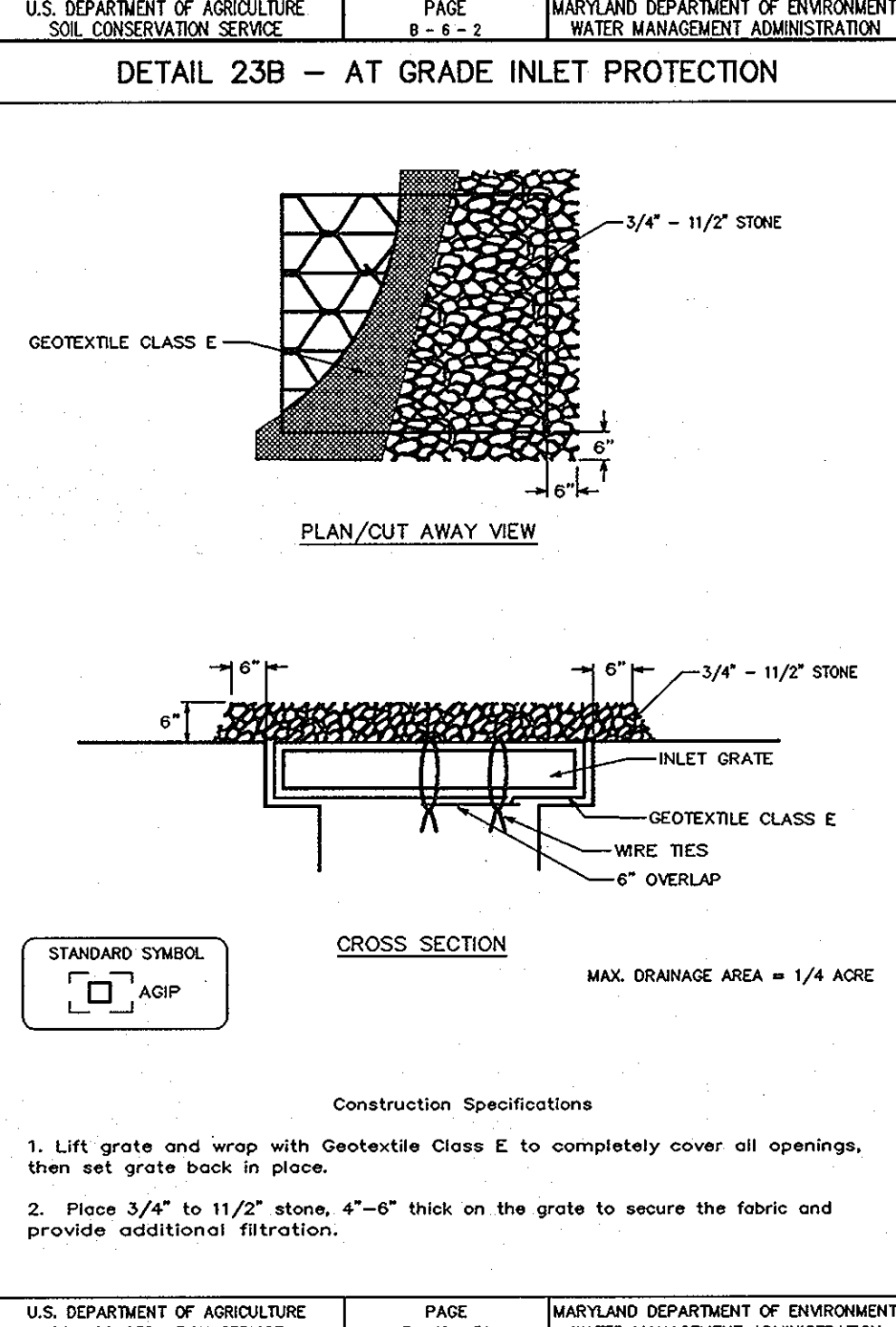
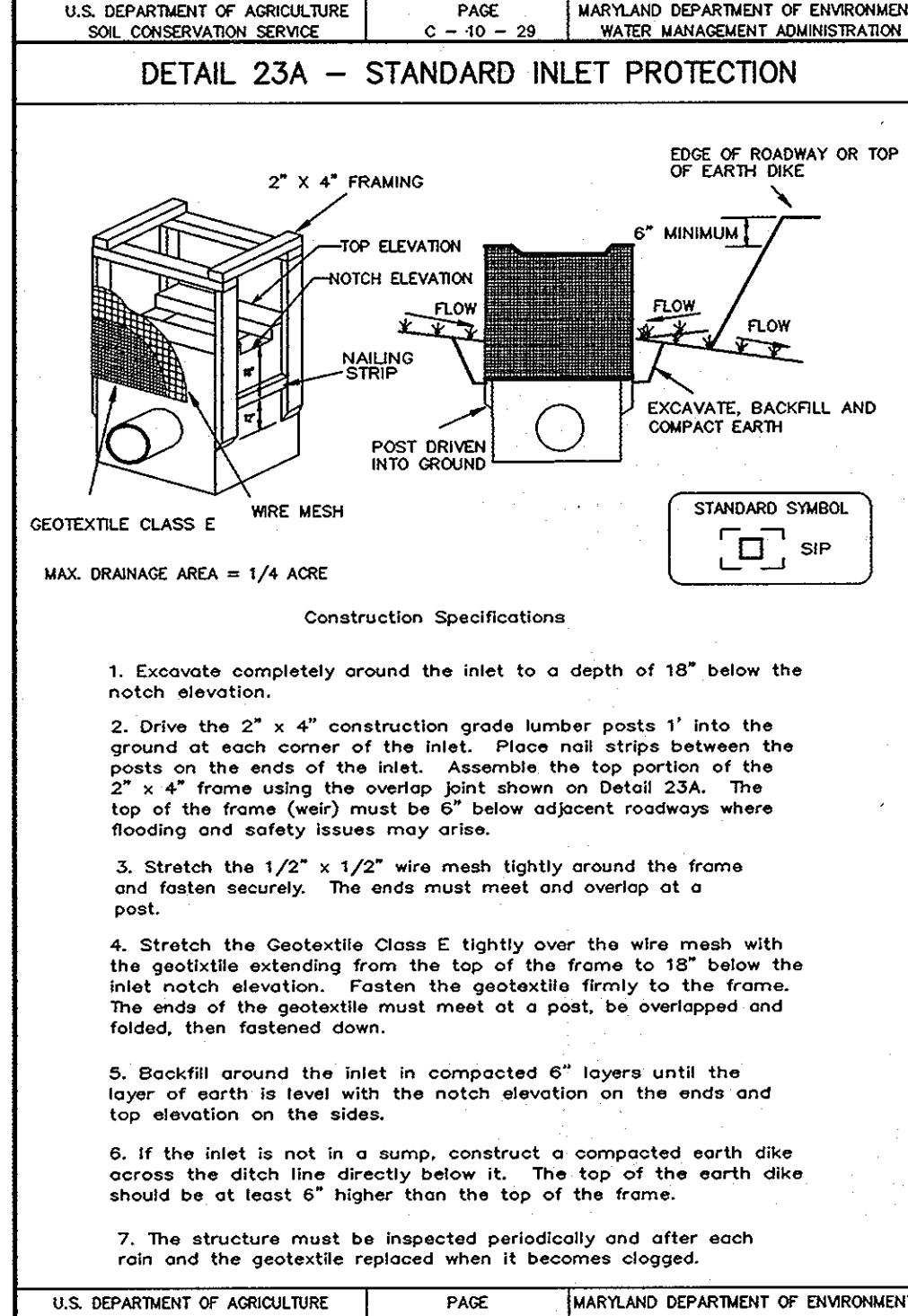
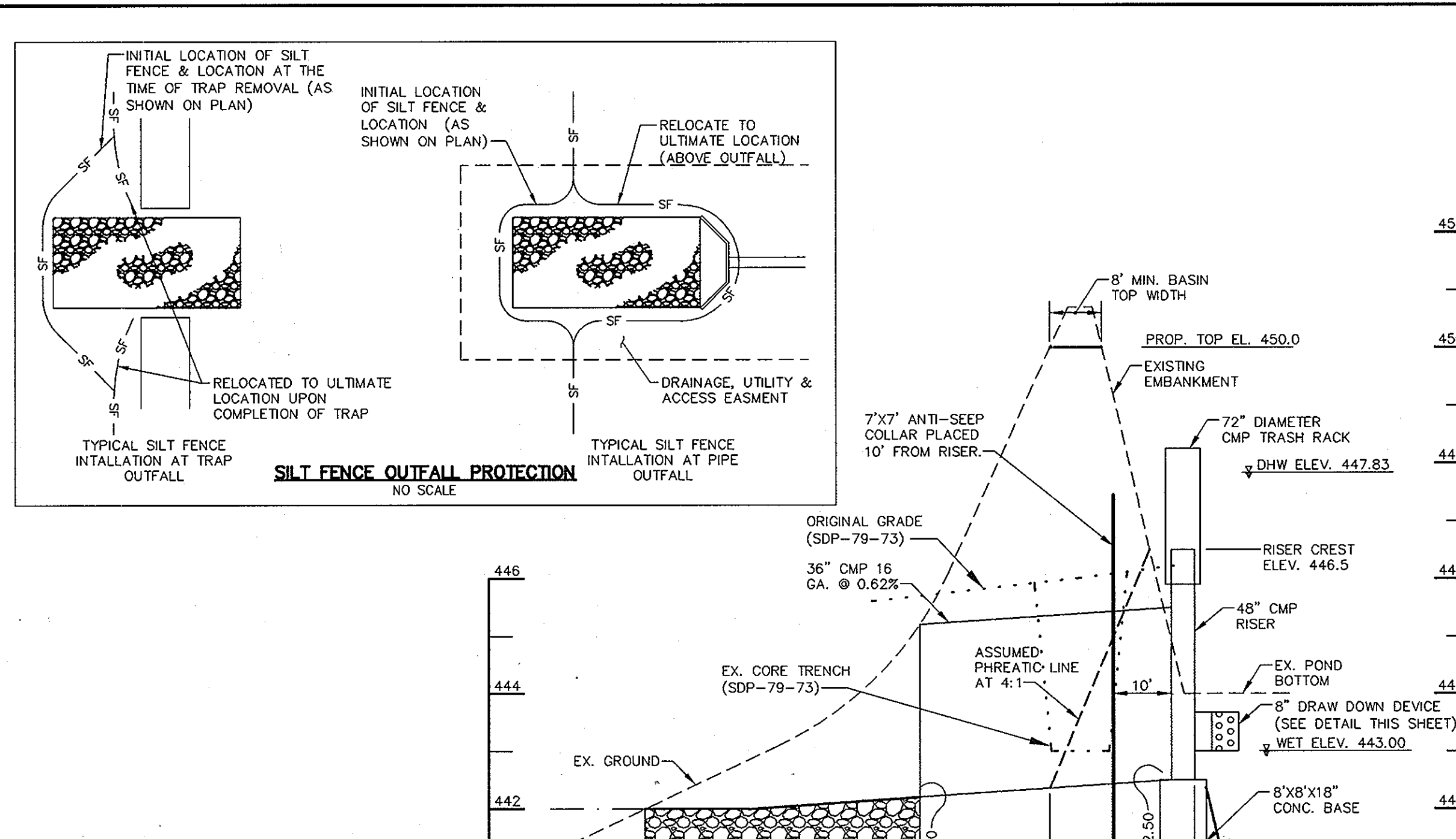
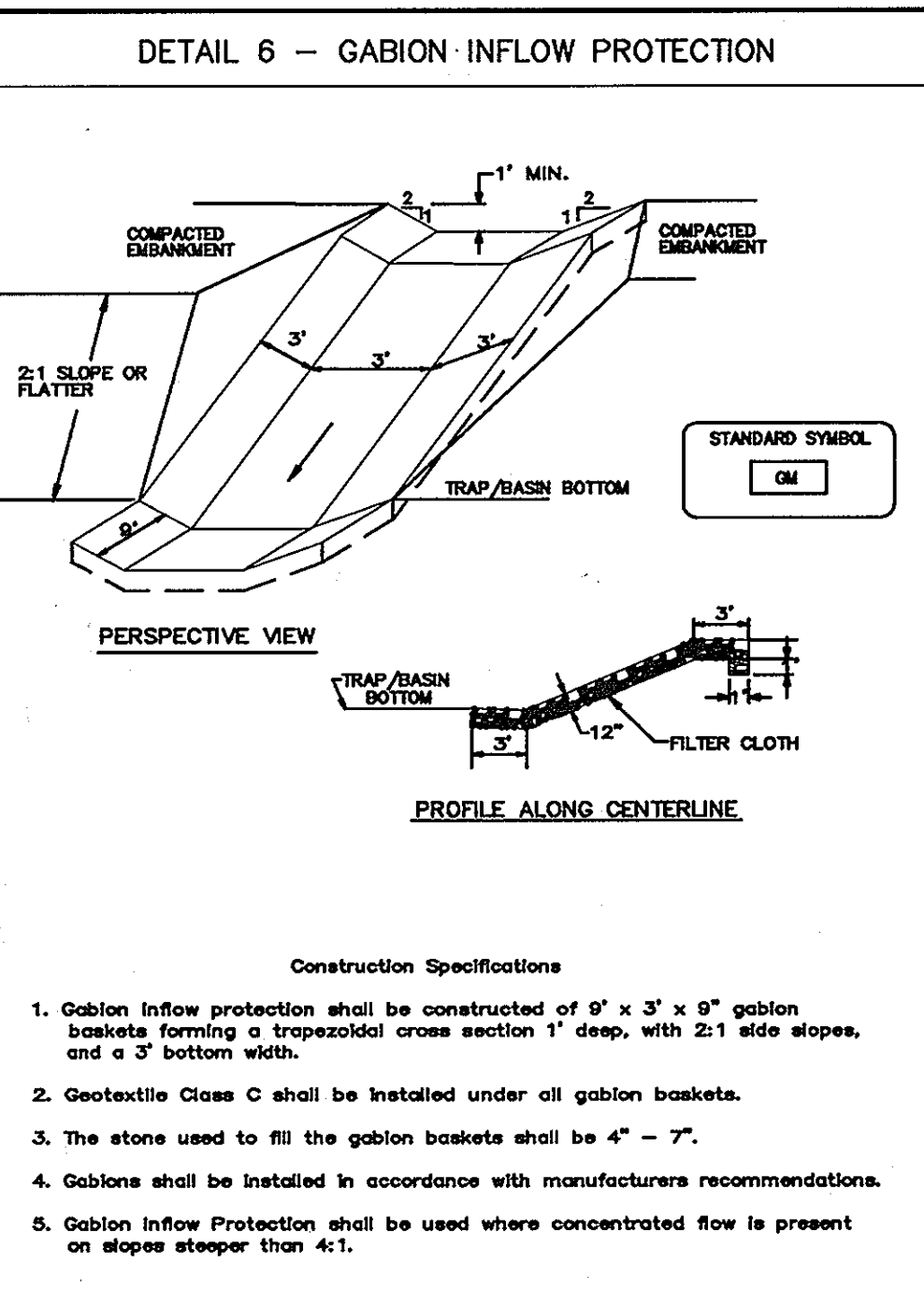
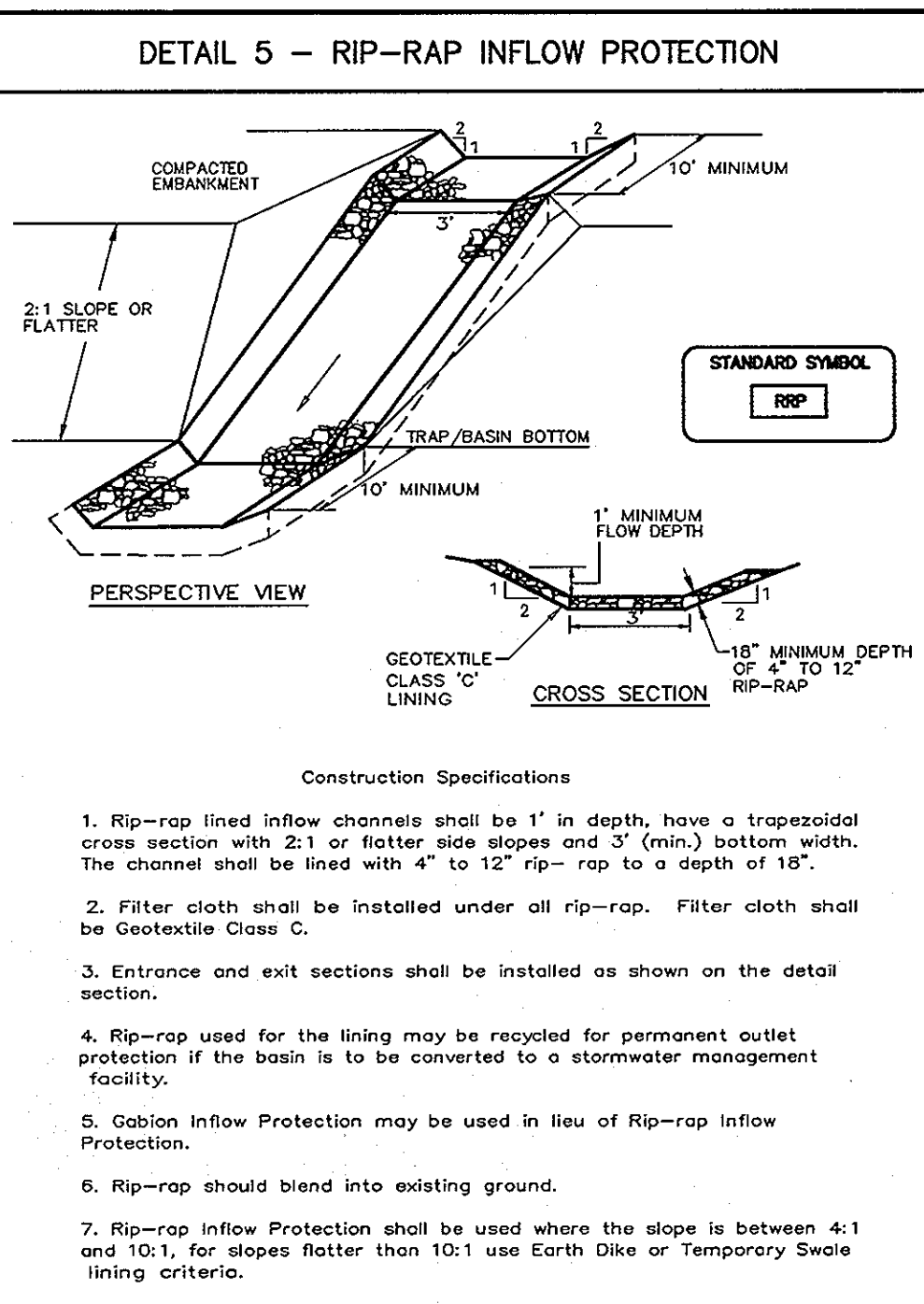
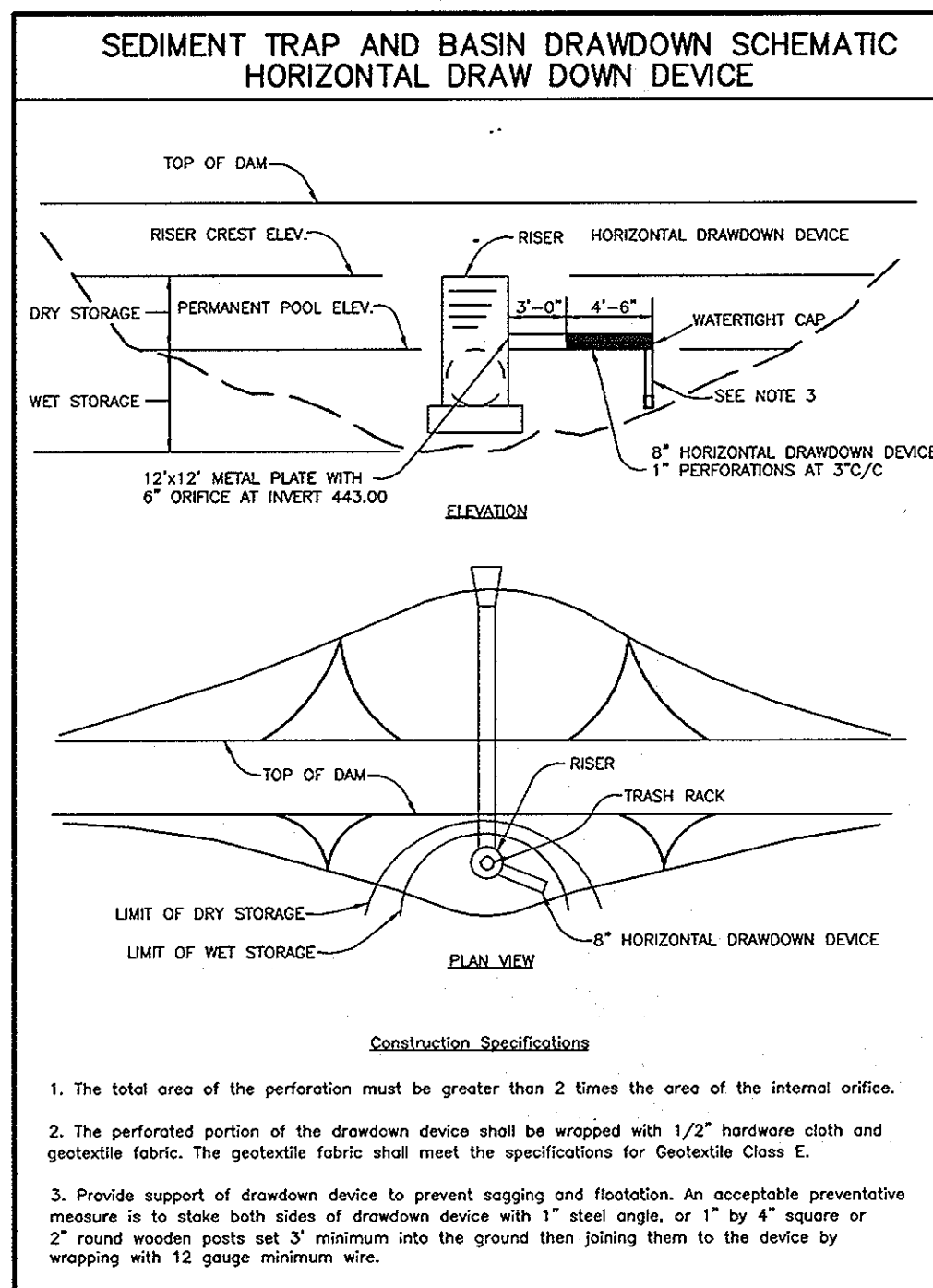
AREA
PARCELS 196.21 AND 303 TAX MAP 34
5th ELECTION DISTRICT ZONED RR-DEO
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HOWARD COUNTY, MARYLAND 21029

TITLE
SEDIMENT CONTROL DETAILS

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
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12-23-03 DATE
DRAWING FILE: C200ESC.DWG
DESIGNED BY: J.W.C.
DRAWN BY: D.R.H.
PROJECT NO: 00370
DATE: JUNE 9, 2003
SCALE: AS SHOWN
DRAWING NO. 15 OF 35
CHRISTOPHER J. REID #11949

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THIS SEAL FOR REVISIONS MADE BY SITE RESOURCES, INC.

PROFESSIONAL ENGINEER
STATE OF MARYLAND
No. 21113
2.11.13

BY THE DEVELOPER:
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Y. Peter Malach 12/27/03
DEVELOPER DATE

BY THE ENGINEER:
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Chris J Rao 12.23.03
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

Jim Myer 1/10/04
NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Steve Selig 1/10/04
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Frank A. Eagle 5/12/01
DIRECTOR DATE

Bill Dammann 1/20/04
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Chris Hamilton 5/14/04
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE	NO.	REVISION
11/8/2002	4	ADDITION OF NEW GYMNASIUM/ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING

OWNER / DEVELOPER
MOST REVEREND WILLIAM H. KEELER
ARCHBISHOP OF BALTIMORE
P. O. BOX 155, SAINT LOUIS CHURCH
ROUTES 108 & 32
CLARKSVILLE, MD 21029
PHONE: 410-531-6040
C/O MONSIGNOR JOSEPH L. LUCA

PROJECT
ST. LOUIS CHURCH
IMPROVEMENTS PHASE II
NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS
12500 MD ROUTE 108

AREA
PARCELS 19621 AND 3030 TAX MAP 34
5th ELECTION DISTRICT ZONED RR-DEO
CLARKSVILLE
HOWARD COUNTY, MARYLAND 21029

TITLE
SEDIMENT CONTROL DETAILS

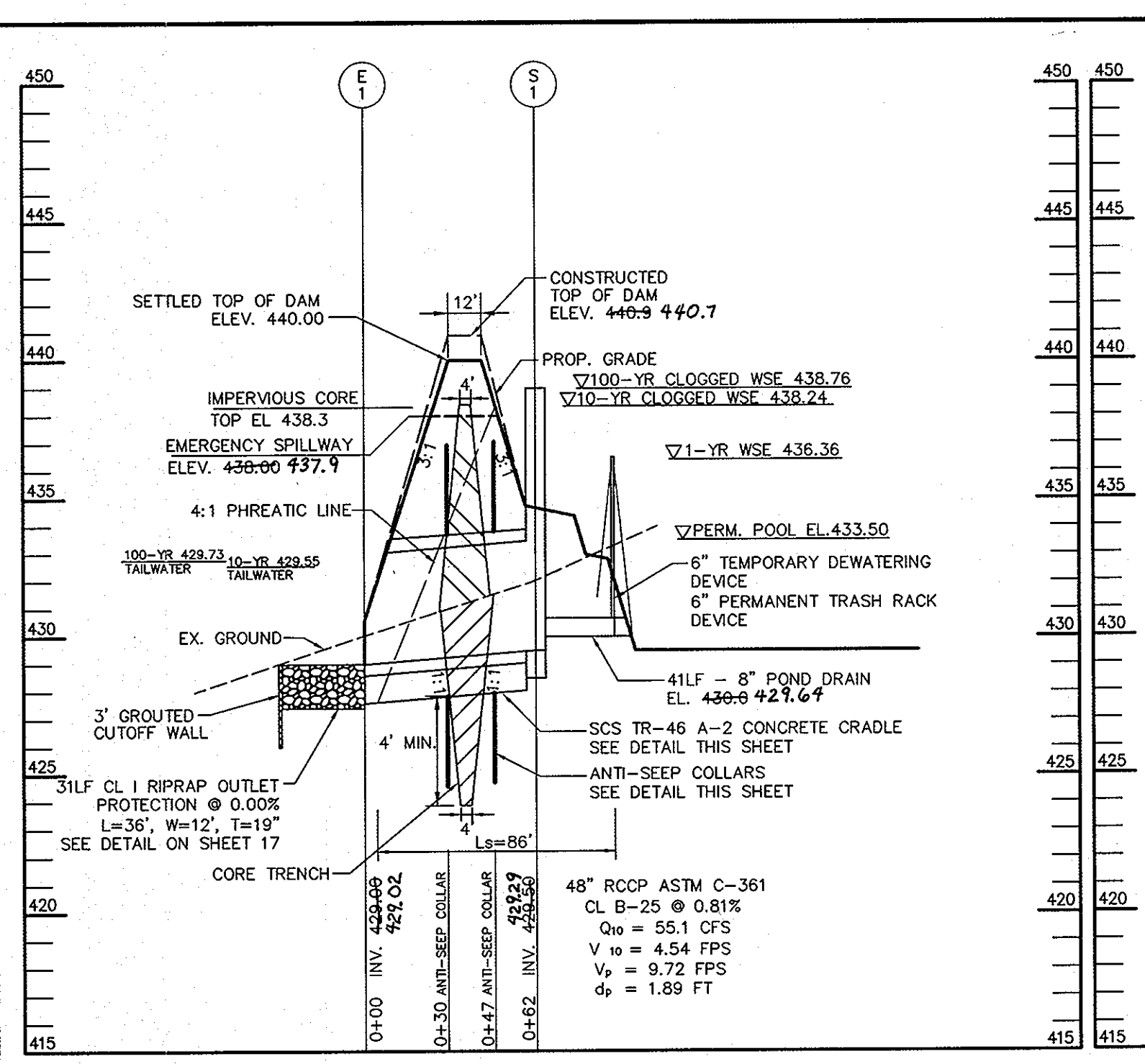
Patton Harris Rust & Associates, pc
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8818 Centre Park Drive
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12.23.03
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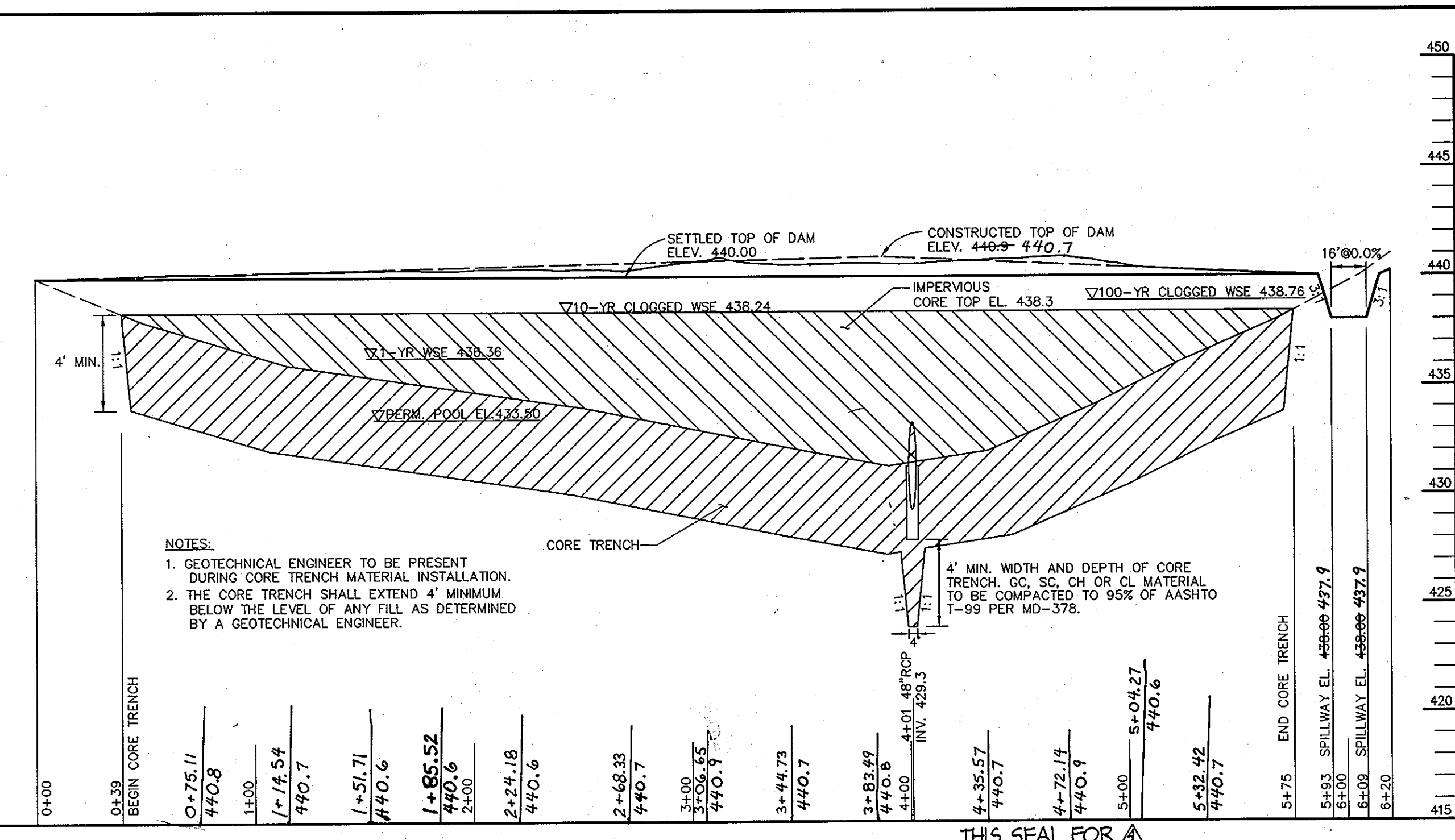
DRAWING FILE: C202ESC.DWG
DESIGNED BY: J.W.C.
DRAWN BY: D.R.H.
PROJECT NO: 00370
DATE: JUNE 9, 2003
SCALE: AS SHOWN
DRAWING NO. 16 OF 35

CHRISTOPHER J. REID #11949

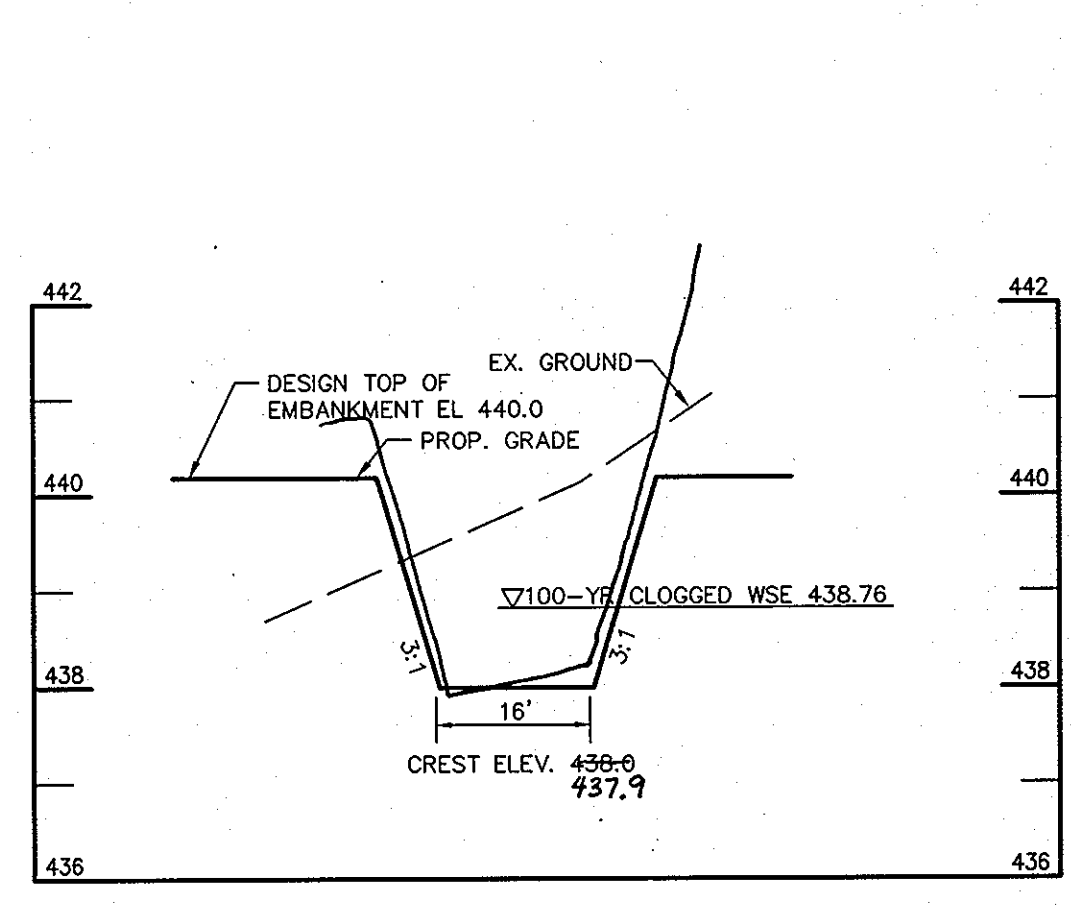
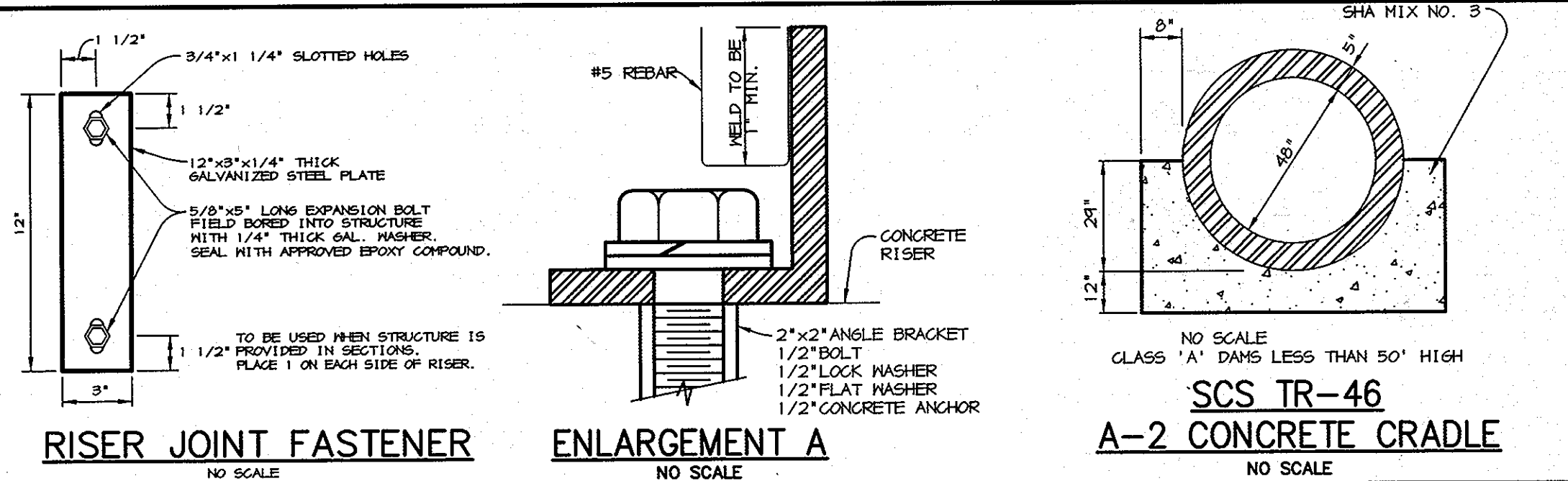
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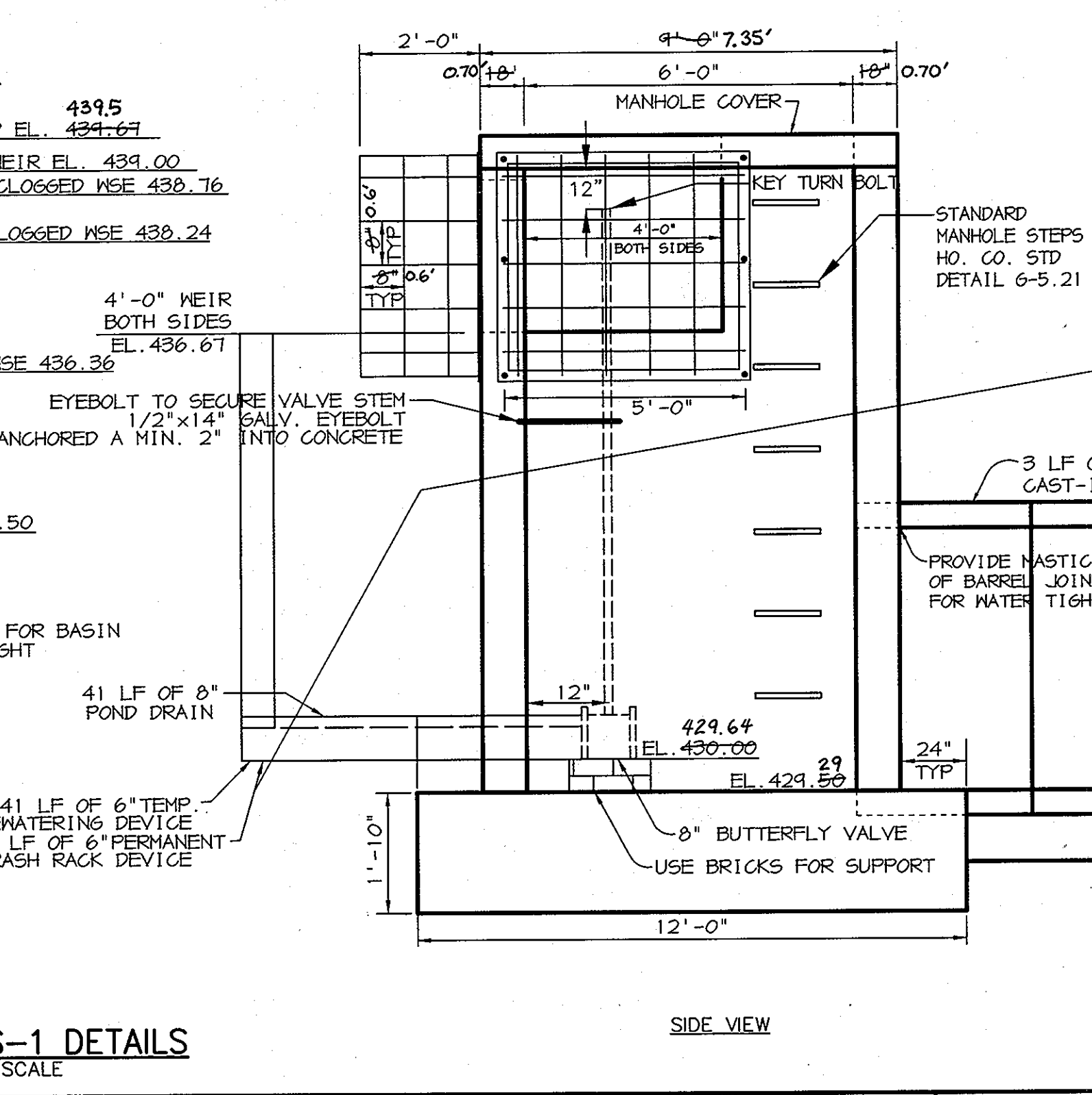
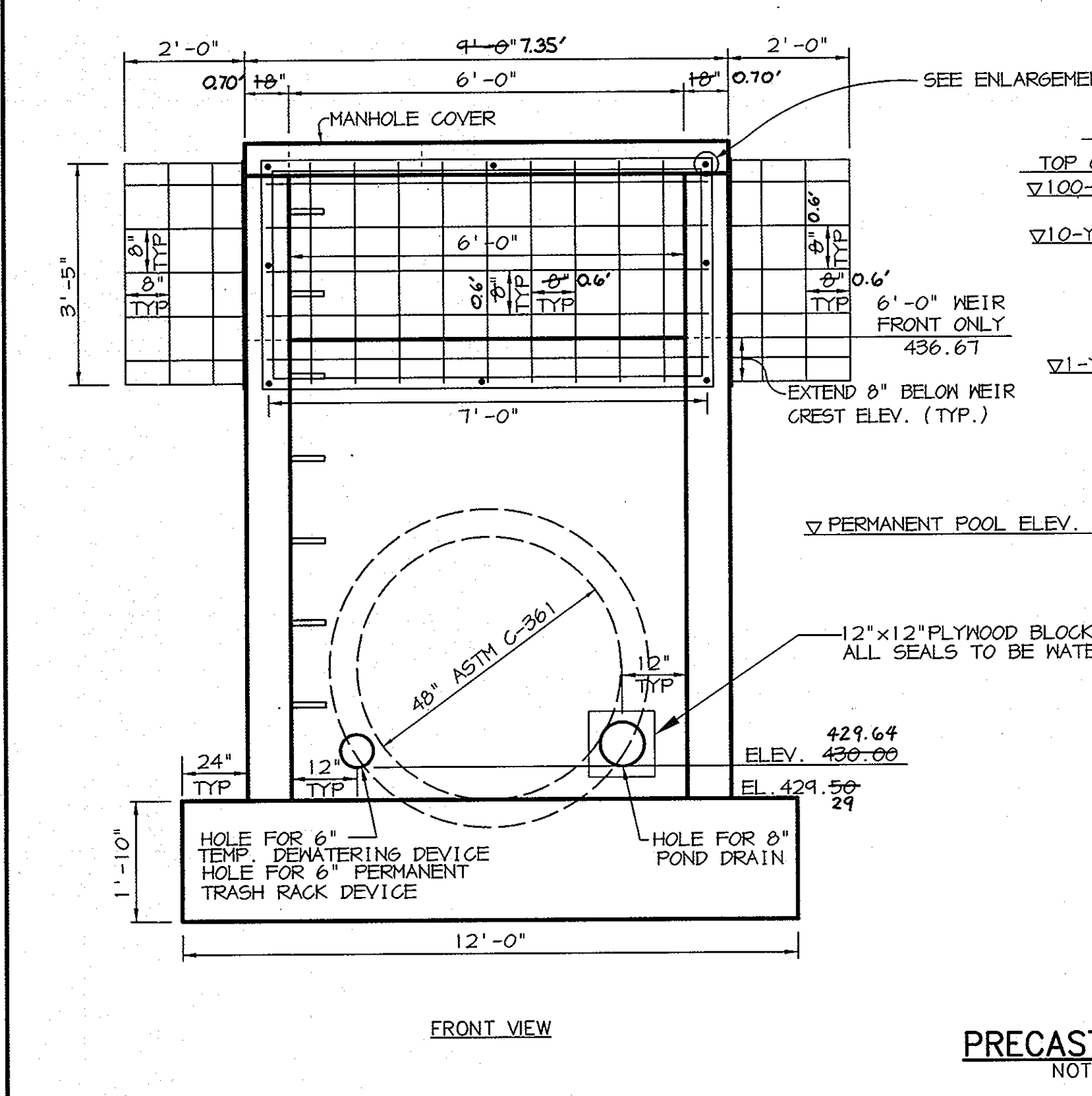
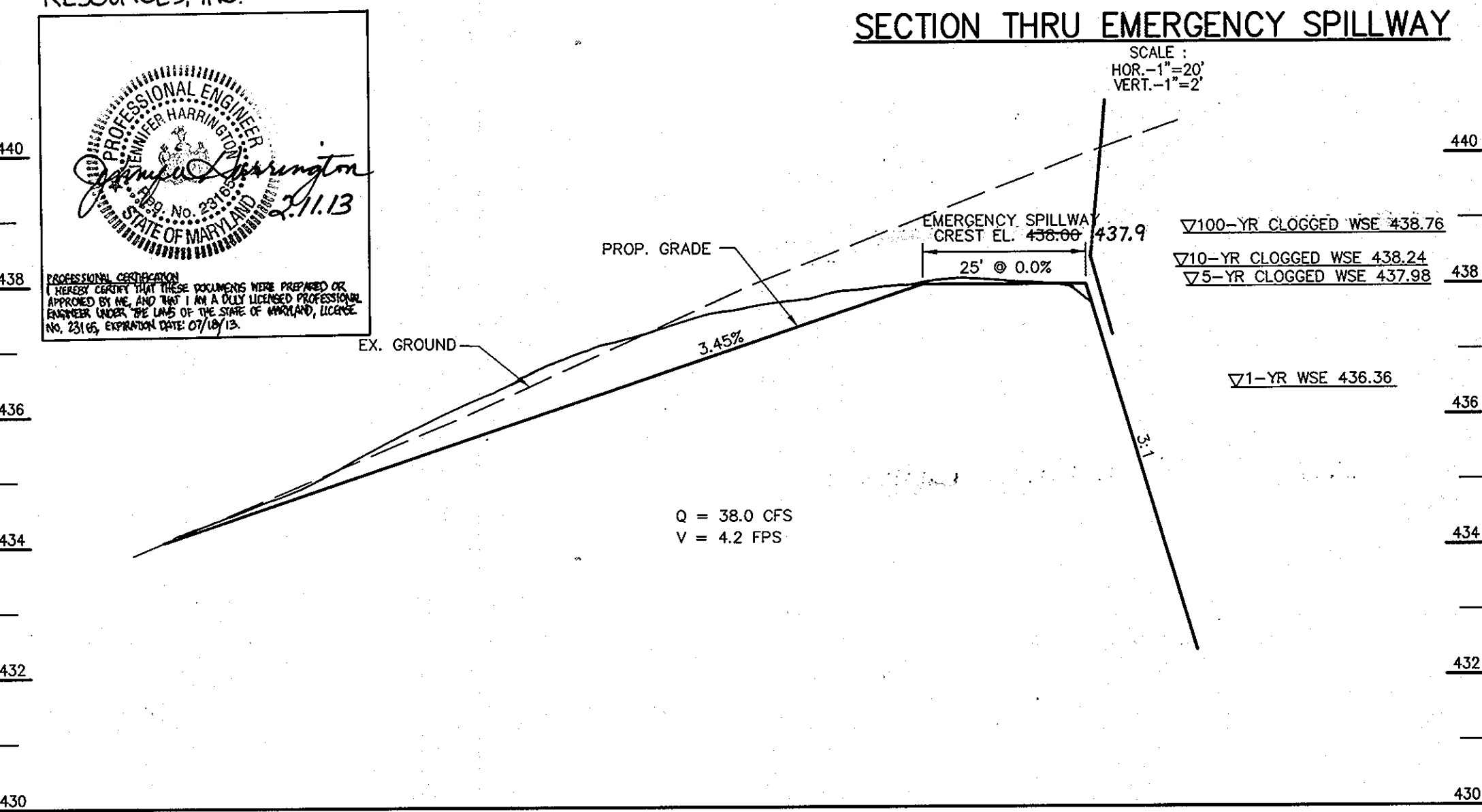
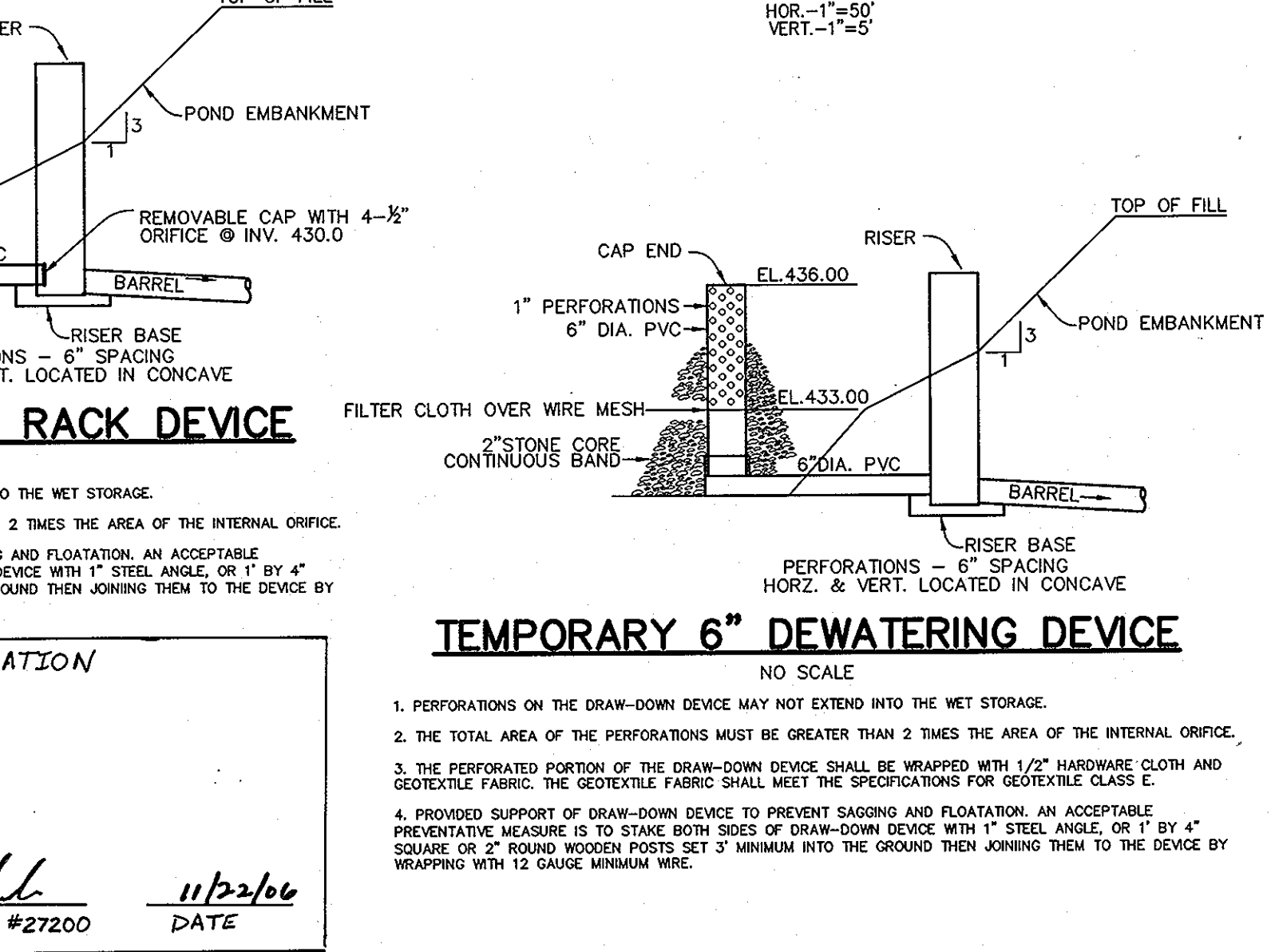
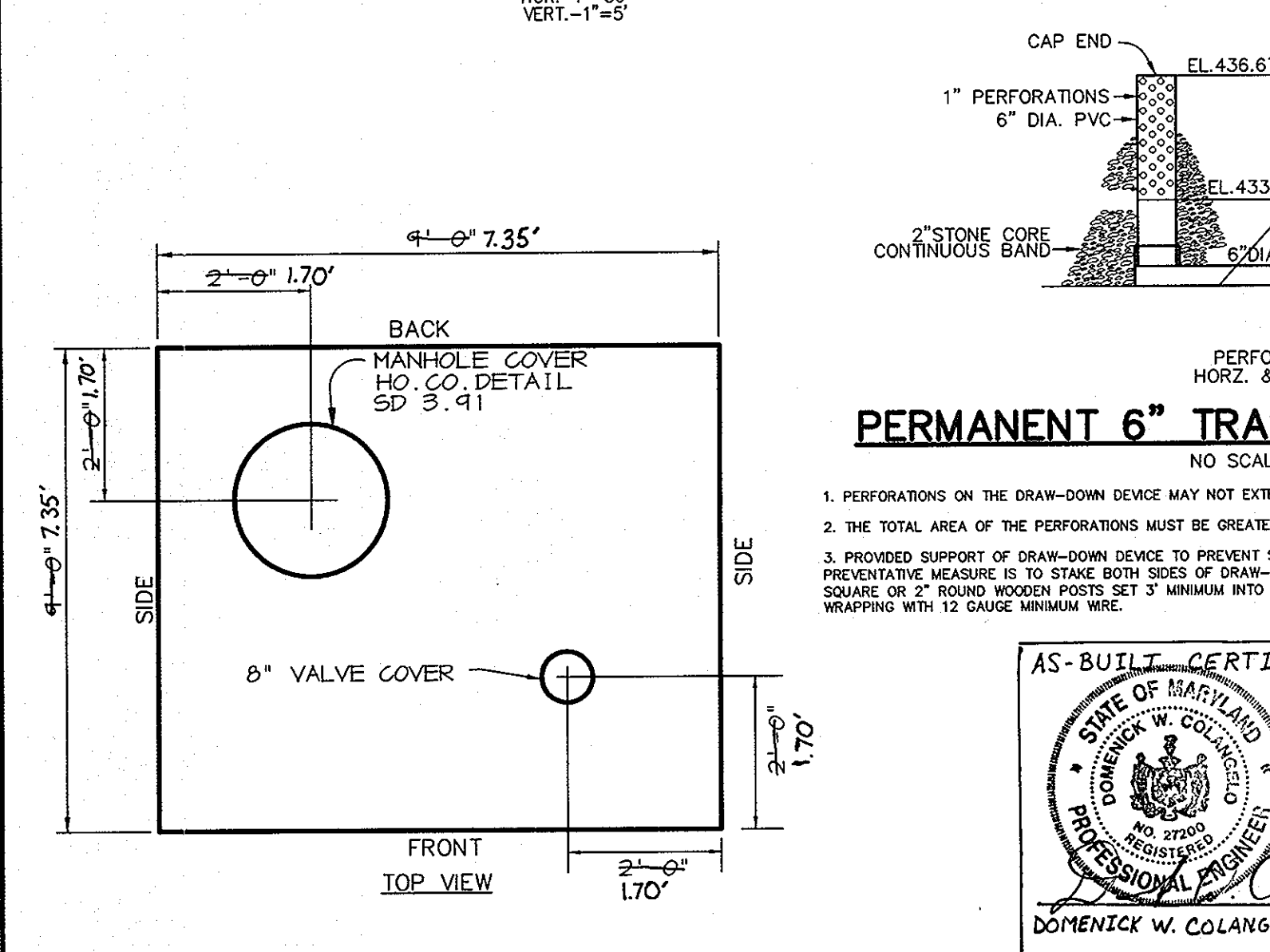
PRINCIPAL SPILLWAY PROFILE
 SCALE: HOR.-1"=50' VERT.-1"=5'



EMBANKMENT CENTERLINE PROFILE
 SCALE: HOR.-1"=50' VERT.-1"=5'



SECTION THRU EMERGENCY SPILLWAY
 SCALE: HOR.-1"=20' VERT.-1"=2'



RISER STRUCTURE NOTES FOR S-1

- RISER TO BE PRECAST. SHOP DRAWINGS FOR THIS CONCRETE STRUCTURE SHALL MEET THE MINIMUM ASTM REQUIREMENTS FOR PRECAST STRUCTURES. A SHOP DRAWING SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION AND SHALL BE SIGNED AND SEALED BY A MARYLAND REGISTERED PROFESSIONAL ENGINEER.
- CONCRETE SHALL BE MEHA MIX NO. 3 (f_c=3,500 PSI MINIMUM).
- REFER TO HOWARD COUNTY STD. 6-5.21 FOR MANHOLE STEP DETAILS.
- RISER JOINTS SHALL BE WATERTIGHT USING NEOPRENE GASKETS.
- ALL PIPE CONNECTIONS SHALL PROVIDE RUBBER GASKET FOR WATERTIGHTNESS.
- RISER SHALL BE PLACED ON A FIRMLY COMPACTED SUBGRADE AND SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER.
- ALL 8" BUTTERFLY VALVE SHALL BE CONNECTED TO THE RISER WALL WITH ALL-THREADED ROD AND A FLANGE JOINT.
- PROVIDE SUPPORT OF GALV. STEEL ELBOWS TO PREVENT SAGGING. AN ACCEPTABLE METHOD IS TO STAKE BOTH SIDES OF STEEL ELBOW WITH 1" STEEL ANGLE OR 1" BY 4" SQUARE OR 2" ROUND STEEL POSTS SET 3 FEET MIN. INTO GROUND THEN JOINING THEM TO THE ELBOW BY WRAPPING WITH 12 GAUGE MIN. WIRE.

REMOVABLE TRASH RACK NOTES:

- STEEL TO CONFORM TO ASTM A-36. #5 BARS TO BE SMOOTH. SEE DETAIL FOR SPACING.
- ALL REBAR TO BE WELDED AT ALL INTERSECTIONS.
- ALL BENDS TO BE 2" RADIUS. 2" x 2" ANGLE IRON AND 1/2" DIAMETER ANCHOR BOLTS TO BE USED FOR TRASH RACK FRAME.
- GALVANIZE TRASH RACK AFTER FABRICATION AND PAINT BATTLESHIP GRAY.

RISER REINFORCEMENT NOTES:

REINFORCING TO BE #1 DEFORMED BARS @ 6" C/C, 2 WAYS, WITH 2" COVER IN WALLS AND BOTTOM SLAB.

CONCRETE ANTI-SEEP COLLAR
 NO SCALE

NOTES: 1. LOCATE COLLAR A MINIMUM OF TWO FEET FROM PIPE JOINT.
 2. COLLAR/PIPE CONNECTION SHALL BE WATERTIGHT.

BY THE DEVELOPER:
 I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER: *[Signature]* DATE: 12/07/06

BY THE ENGINEER:
 I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

ENGINEER: *[Signature]* DATE: 12-08-05

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

NATURAL RESOURCES CONSERVATION SERVICE DATE: 12/22/05

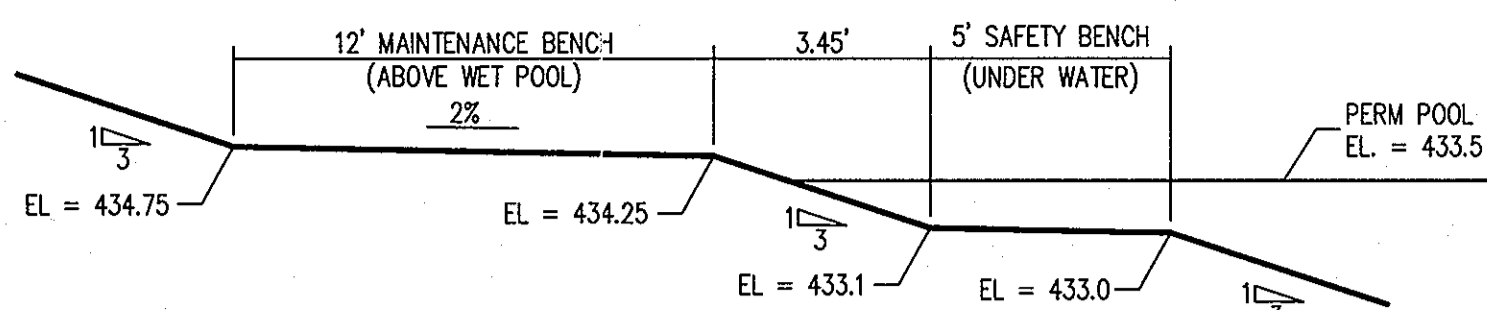
THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT DATE: 12/22/05

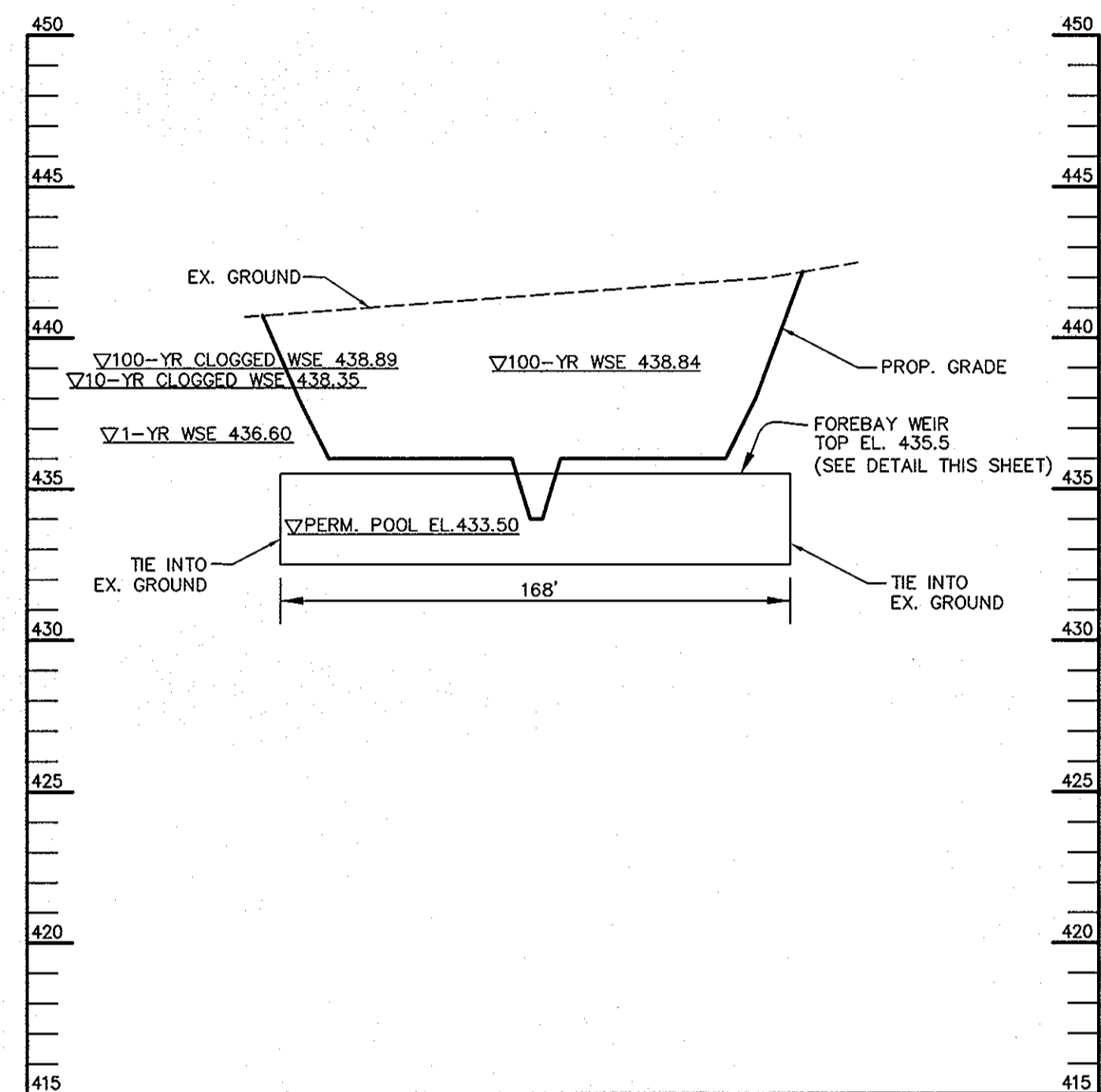
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 DIRECTOR: *[Signature]* DATE: 1/3/06
 CHIEF, DEVELOPMENT ENGINEERING DIVISION: *[Signature]* DATE: 12/22/05
 CHIEF, DIVISION OF LAND DEVELOPMENT: *[Signature]* DATE: 1/3/06

11/8/04	4	ADDITION OF NEW GYMNASIUM/ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING
9/28/05	1	CHANGED UNDERGROUND PIPE DETAILS TO WET POND
DATE	NO.	REVISION
OWNER / DEVELOPER		
MOST REVEREND WILLIAM H. KEELER ARCHBISHOP OF BALTIMORE P. O. BOX 155, SAINT LOUIS CHURCH ROUTES 108 & 32 CLARKSVILLE, MD 21029 PHONE: 410-531-6040 C/O MONSIGNOR JOSEPH L. LUCA		
PROJECT		
ST. LOUIS CHURCH IMPROVEMENTS PHASE 1 NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS 12500 MD ROUTE 108		
AREA		
PARCELS 196(2) AND 30(2) TAX MAP 34 5th ELECTION DISTRICT ZONED RR-DEO CLARKSVILLE HOWARD COUNTY, MARYLAND 21029		
TITLE		
REVISED STORMWATER MANAGEMENT DETAILS		
Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282		
DRAWING FILE: REVISED SDP/ C902DET.DWG		
DESIGNED BY: A.C.R.		
DRAWN BY: M.A.D.		
PROJECT NO: 00370		
DATE: DECEMBER 8, 2005		
SCALE: AS SHOWN		
DRAWING NO. 18 OF 35		

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 AIMEE C. REMINGTON #29923
 DATE: 12/08/05

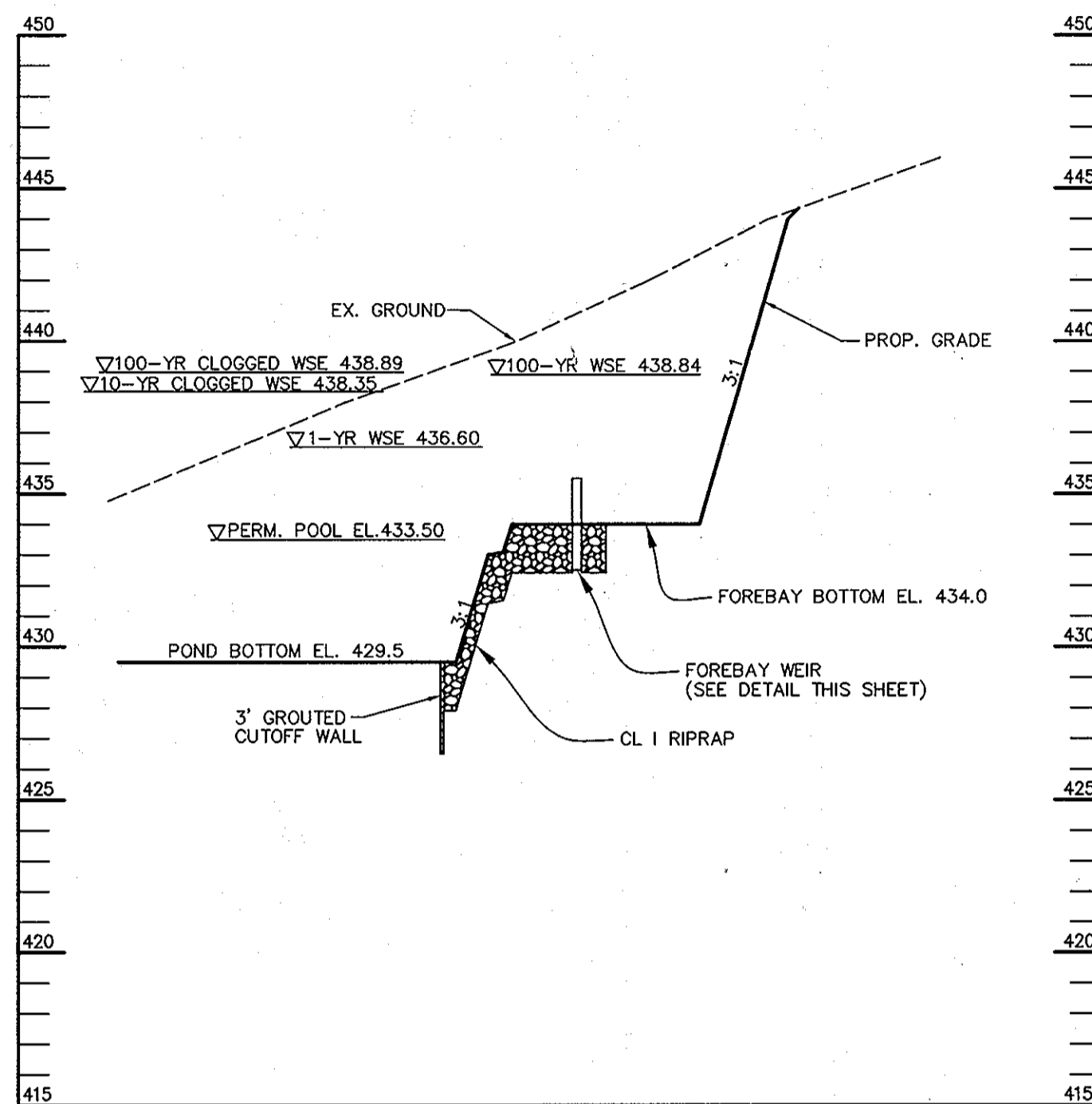


POND BENCHING TYPICAL SECTION
NOT TO SCALE



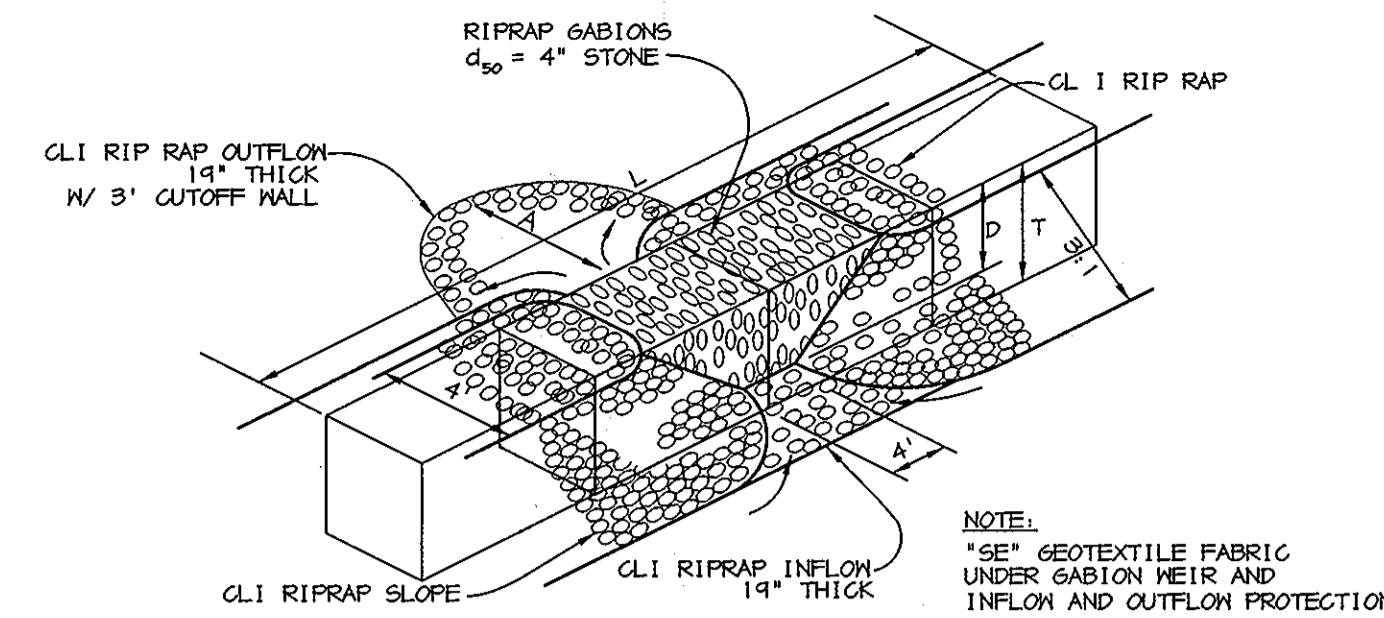
FOREBAY SECTION

SCALE:
HOR.-1"=50'
VERT.-1"=5'



FOREBAY PROFILE

SCALE:
HOR.-1"=50'
VERT.-1"=5'



FOREBAY WEIR CHART

POND	GABIONS	TOP EL.	D	L	T	A
1	14-12'X3'X3'	435.5	1.5'	168'	3.0'	43'

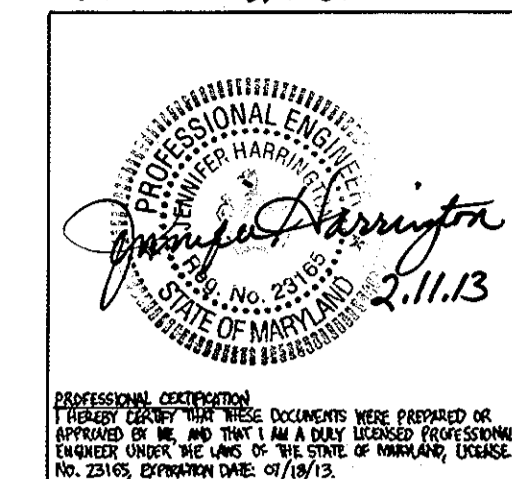
FOREBAY WEIR DETAIL

NO SCALE

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED STORMWATER PONDS (P-1 THROUGH P-5)

- ROUTINE MAINTENANCE**
- FACILITY SHALL BE INSPECTED ANNUALLY AND AFTER MAJOR STORMS. INSPECTIONS SHOULD BE PERFORMED DURING WET WEATHER TO DETERMINE IF THE POND IS FUNCTIONING PROPERLY.
 - TOP AND SIDE SLOPES OF THE EMBANKMENT SHALL BE MOVED A MINIMUM OF TWO (2) TIMES A YEAR, ONCE IN SPRING AND ONCE IN SEPTEMBER. OTHER SIDE SLOPES, THE BOTTOM OF THE POND, AND MAINTENANCE ACCESS SHOULD BE MOVED AS NEEDED.
 - DEBRIS AND LITTER NEXT TO THE OUTLET STRUCTURE SHALL BE REMOVED DURING REGULAR MAINTENANCE OPERATIONS AND AS NEEDED.
 - VISIBLE SIGNS OF EROSION IN THE POND AS WELL AS RIPRAP OUTLET AREA SHALL BE REPAIRED AS SOON AS IT IS NOTICED.
- NON-ROUTINE MAINTENANCE**
- STRUCTURAL COMPONENTS OF THE POND SUCH AS THE DAM, THE RISER, AND THE PIPES SHALL BE REPAIRED UPON THE DETECTION OF ANY DAMAGE. THE COMPONENTS SHOULD BE INSPECTED DURING ROUTINE MAINTENANCE OPERATIONS.
 - SEDIMENT SHOULD BE REMOVED WHEN ITS ACCUMULATION SIGNIFICANTLY REDUCES THE DESIGN STORAGE, INTERFERES WITH THE FUNCTION OF THE RISER, WHEN DEEMED NECESSARY FOR AESTHETIC REASONS, OR WHEN DEEMED NECESSARY BY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

THIS SEAL FOR REVISIONS MADE BY SITE RESOURCES, INC.



BY THE DEVELOPER:
I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

William H. Keeler 12/07/05
DEVELOPER DATE

BY THE ENGINEER:
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTICED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

Aimee C. Remington 12-08-05
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

Jim Myers
NATURAL RESOURCES CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Patton Harris Rust 12/28/05
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Mark D. Weyler 1/10/11
DIRECTOR DATE

Mark Kahl 12/28/05
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Guido Stantuta 4/13/06
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

11/8/2012 4 ADDITION OF NEW GYMNASIUM/ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING
9/28/05 2 REMOVED BIORETENTION DETAILS, ADDED FOREBAY & POND DETAILS
9/1/04 1 REMOVED BIORETENTION FACILITY #2

DATE NO. REVISION

OWNER / DEVELOPER
MOST REVEREND WILLIAM H. KEELER
ARCHBISHOP OF BALTIMORE
P. O. BOX 155, SAINT LOUIS CHURCH
ROUTES 108 & 32
CLARKSVILLE, MD 21029
PHONE: 410-531-6040
C/O MONSIGNOR JOSEPH L. LUCA

PROJECT
ST. LOUIS CHURCH IMPROVEMENTS PHASE II
NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS
12500 MD ROUTE 108

AREA
PARCELS 1962 24 AND 20 TAX MAP 34
5th ELECTION DISTRICT ZONED RR-DEO
CLARKSVILLE
HOWARD COUNTY, MARYLAND 21029

TITLE
REVISED STORMWATER MANAGEMENT DETAILS

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

Patton Harris Rust 12/18/05
DRAWING FILE: 063071.DWG DATE

DESIGNED BY: A.C.R.
DRAWN BY: M.A.D.

PROJECT NO.: 00370
DATE: DECEMBER 8, 2005

SCALE: AS SHOWN
DRAWING NO. 19 OF 35

Aimee C. Remington 12/28/05
AIMEE C. REMINGTON #29993

EMBANKMENT AND CUT-OFF TRENCH CONSTRUCTION

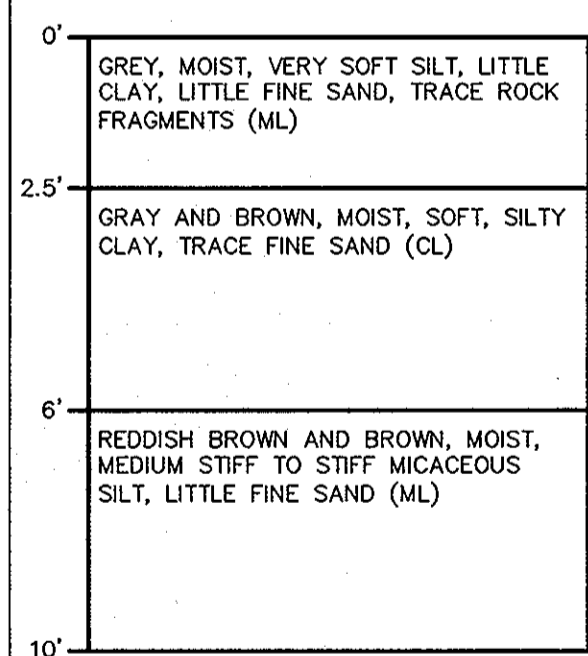
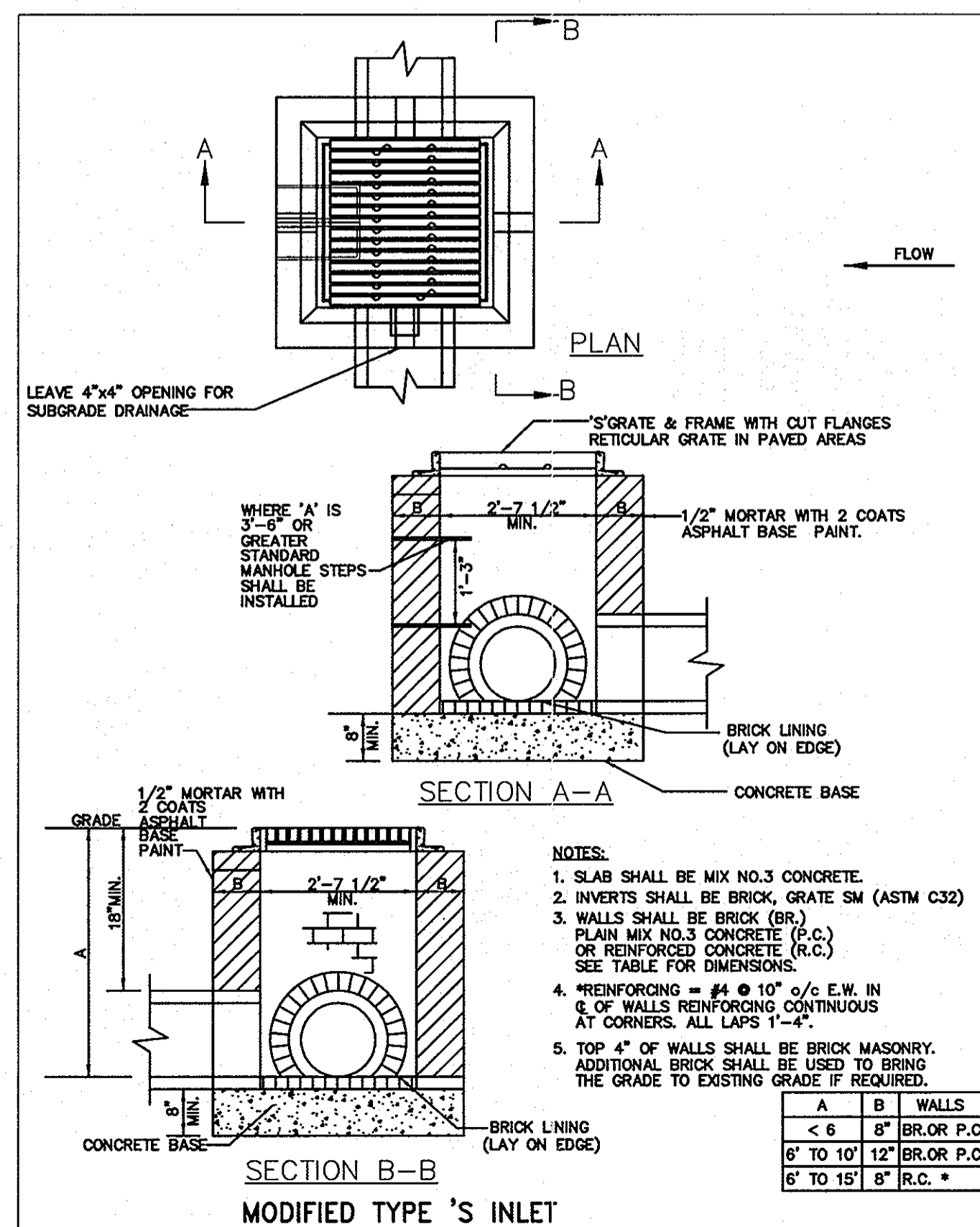
THE AREA OF THE PROPOSED SWM FACILITY SHOULD BE STRIPPED OF TOPSOIL AND ANY OTHER UNSUITABLE MATERIALS FROM THE EMBANKMENT OR STRUCTURE AREAS IN ACCORDANCE WITH SOIL CONSERVATION GUIDELINES. AFTER STRIPPING OPERATIONS HAVE BEEN COMPLETED, THE EXPOSED SUBGRADE MATERIALS SHOULD BE PROOFROLLED WITH A LOADED DUMP TRUCK OR SIMILAR EQUIPMENT IN THE PRESENCE OF A GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE. FOR AREAS THAT ARE NOT ACCESSIBLE TO A DUMP TRUCK, THE EXPOSED MATERIALS SHOULD BE OBSERVED AND TESTED BY A GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE UTILIZING A DYNAMIC CONE PENETROMETER. ANY EXCESSIVELY SOFT OR LOOSE MATERIALS IDENTIFIED BY PROOFROLLING OR PENETROMETER TESTING SHOULD BE EXCAVATED TO SUITABLE FIRM SOIL AND THEN GRADES RE-ESTABLISHED BY BACKFILLING WITH SUITABLE SOIL.

A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER SHOULD BE PRESENT TO MONITOR PLACEMENT AND COMPACTION OF FILL FOR THE EMBANKMENT AND CUT-OFF TRENCH. IN ACCORDANCE WITH NRCS-MD CODE NO. 378, SOILS CONSIDERED SUITABLE FOR THE CENTER OF EMBANKMENT AND CUT-OFF TRENCH SHALL CONFORM TO UNIFIED SOIL CLASSIFICATION CC, SC, CH, OR CL AND MUST HAVE AT LEAST 30% PASSING THE #200 SIEVE.

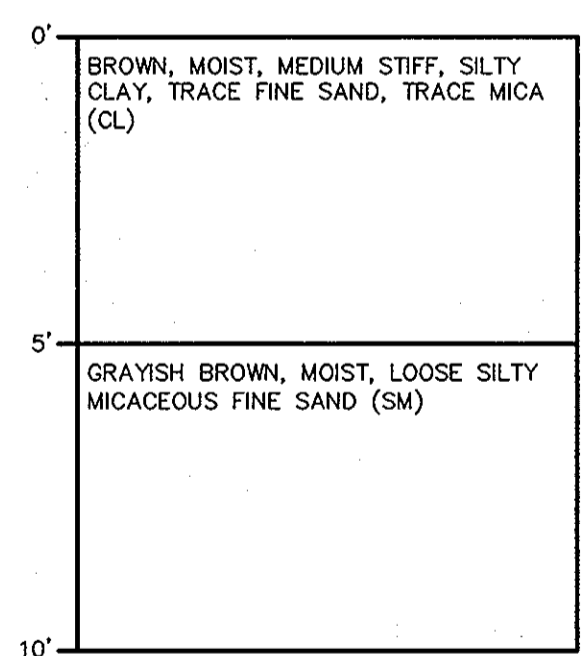
IT IS OUR PROFESSIONAL OPINION THAT IN ADDITION TO THE SOIL MATERIALS DESCRIBED ABOVE A FINE-GRAINED SOIL, INCLUDING SILT (ML) WITH PLASTICITY INDEX OF 10 OR MORE CAN BE UTILIZED FOR THE CENTER OF THE EMBANKMENT AND CORE TRENCH. ALL FILL MATERIALS MUST BE PLACED AND COMPACTED IN ACCORDANCE WITH NRCS-MD CODE NO. 378 SPECIFICATIONS.

OPERATION, MAINTENANCE AND INSPECTION

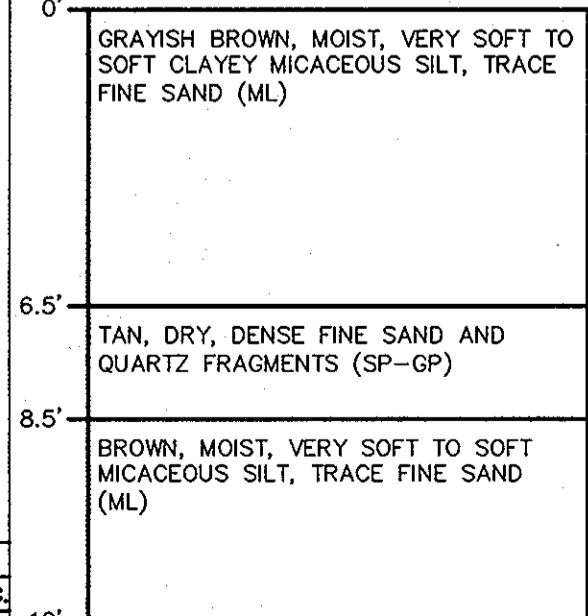
INSPECTION OF THE POND SHOWN HEREON SHALL BE PERFORMED AT LEAST ONCE ANNUALLY, IN ACCORDANCE WITH THE CHECKLIST AND REQUIREMENTS CONTAINED WITHIN USDA, SCS "STANDARDS AND SPECIFICATION FOR PONDS" (MD378). THE POND OWNER AND ANY HEIRS, SUCCESSORS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE POND AND THE CONTINUED OPERATION, SURVEILLANCE, INSPECTION, AND MAINTENANCE THEREOF. THE POND OWNER SHALL PROMPTLY NOTIFY THE SOIL CONSERVATION DISTRICT OF ANY UNUSUAL OBSERVATIONS THAT MAY BE INDICATIONS OF DISTRESS SUCH AS EXCESSIVE SEEPAGE, TURBID SEEPAGE, SLIDING OR SLUMPING.



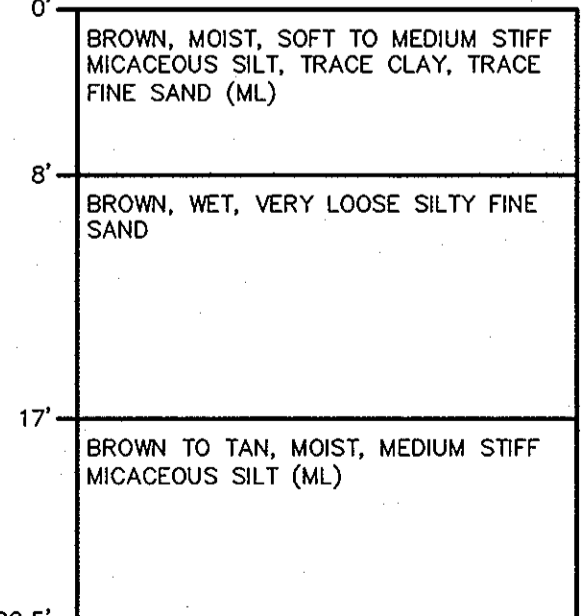
BORING B-1A
NO SCALE



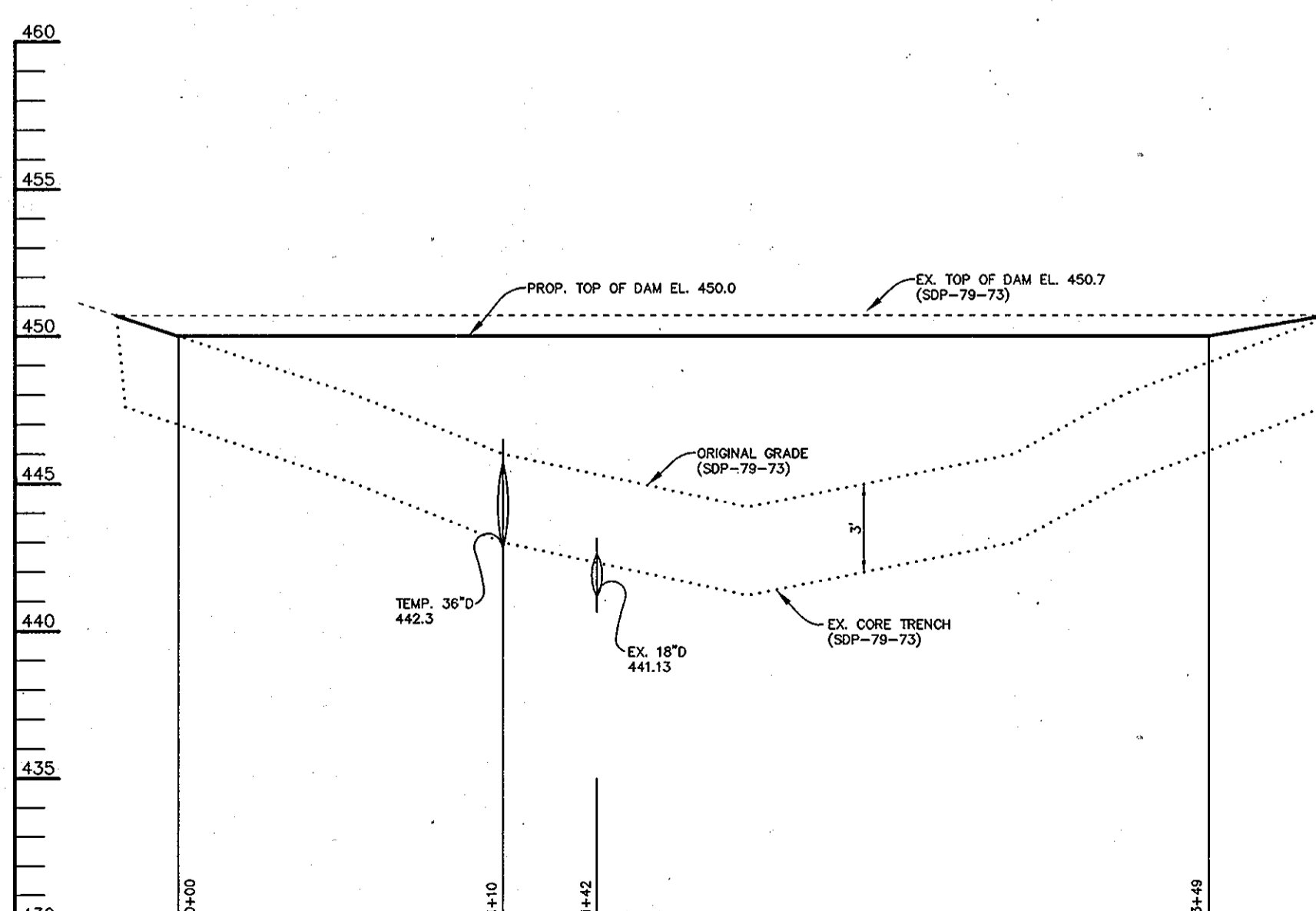
BORING B-2A
NO SCALE



BORING B-3A
NO SCALE

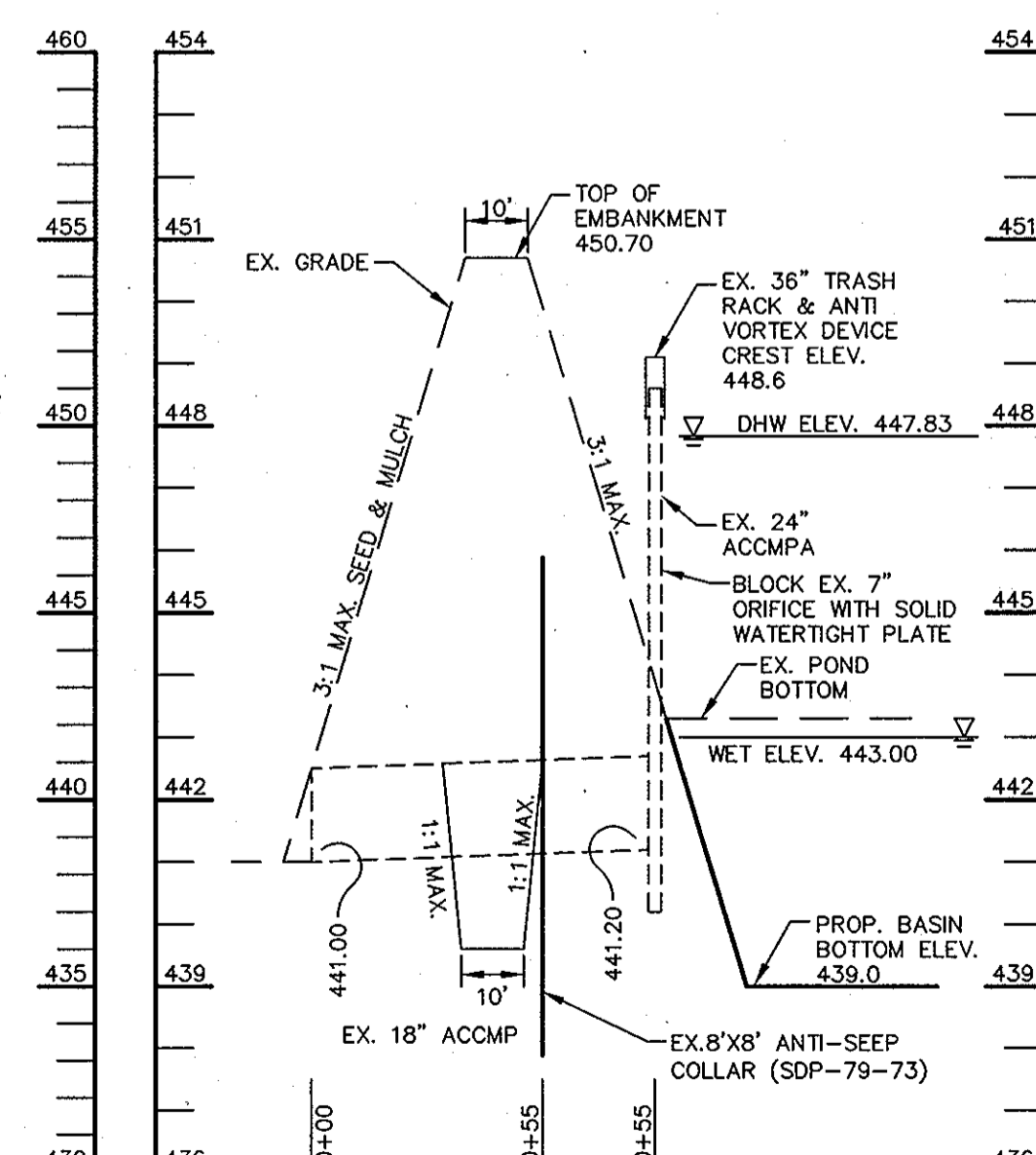


BORING B-4A
NO SCALE



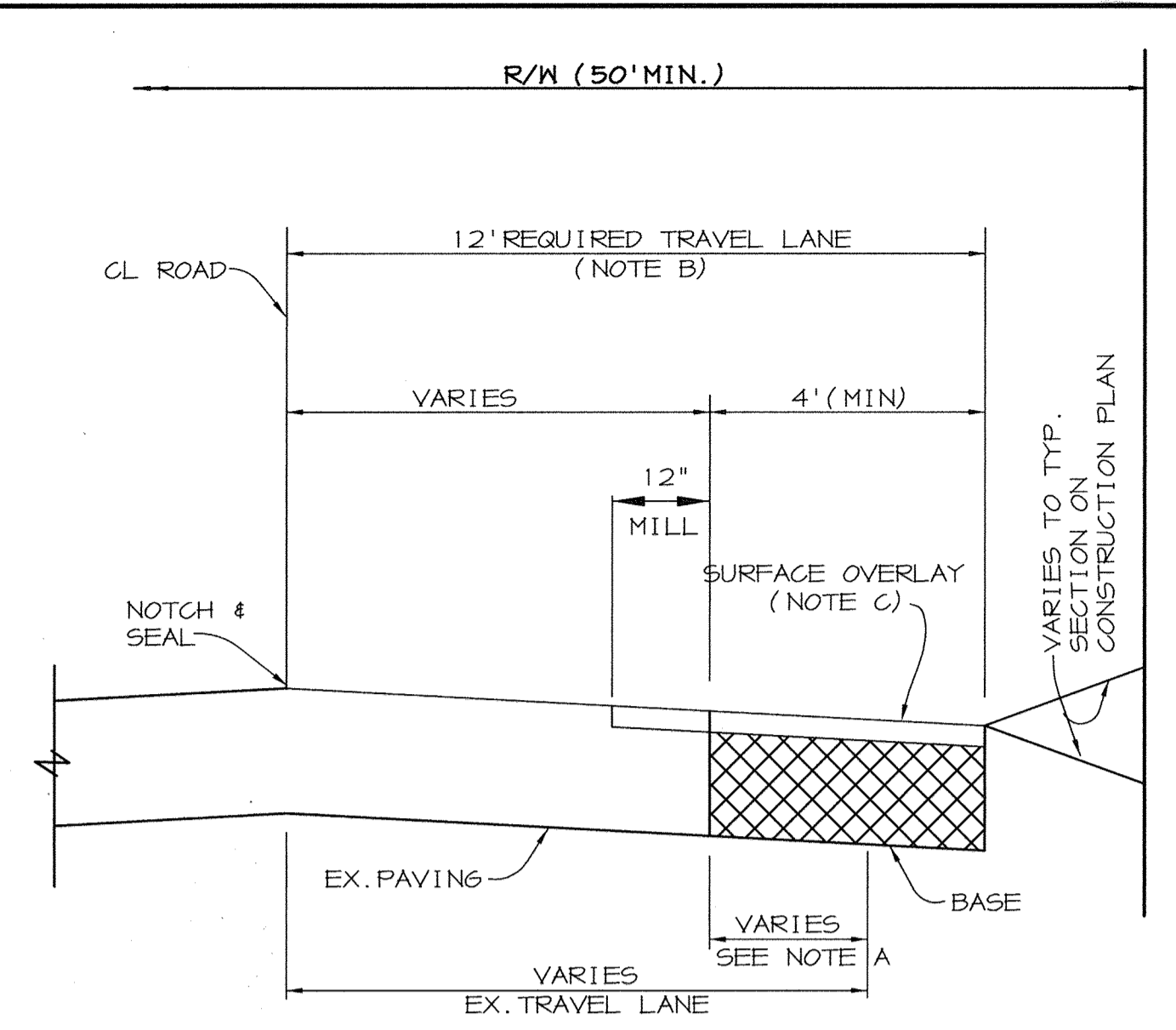
SEDIMENT BASIN #1 PROFILE ALONG CL DAM

SCALE:
HOR.-1"=50'
VERT.-1"=5'



EX. PRINCIPAL SPILLWAY PROFILE

SCALE:
HOR.-1"=30'
VERT.-1"=3'



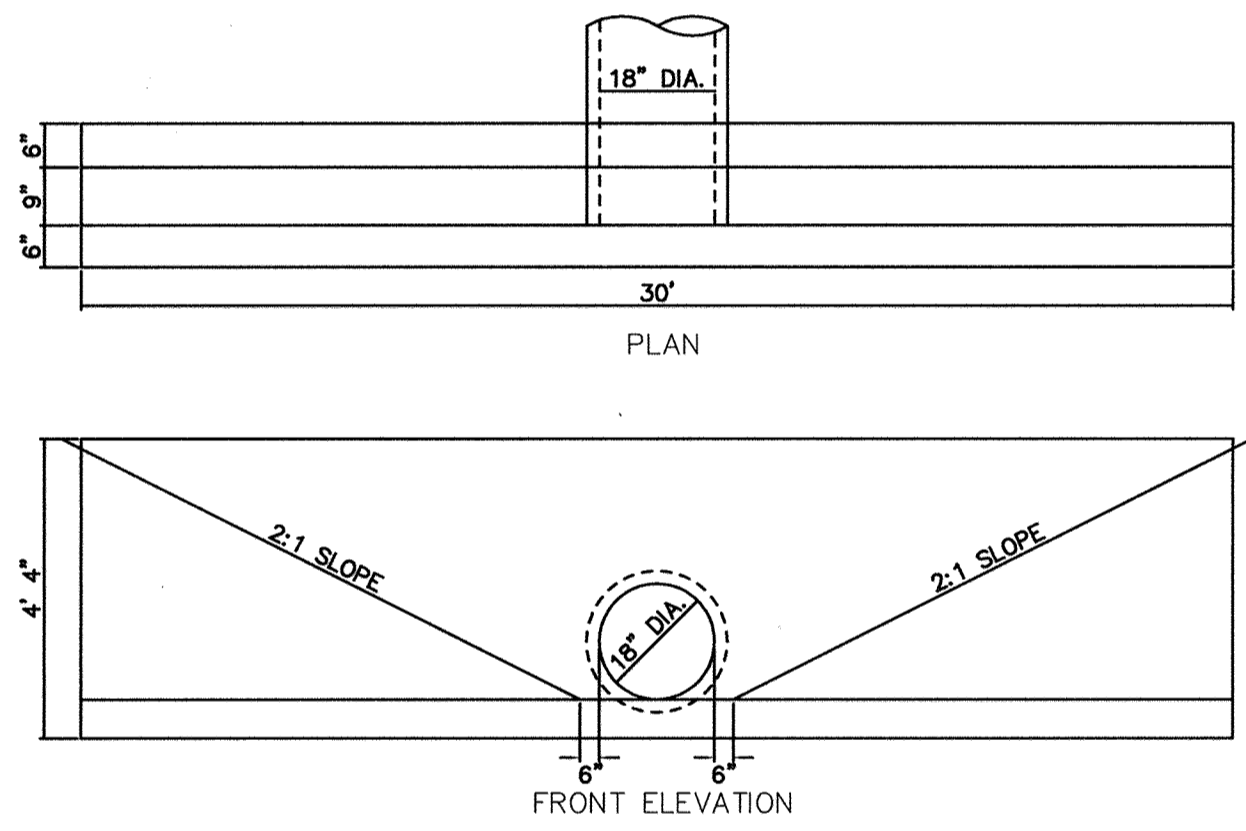
NOTE A - WHEN EXISTING TRAVEL LANE IS LESS THAN THE REQUIRED 12' LANE, CONTRACTOR SHALL REMOVE ENOUGH OF THE EXISTING ROAD BED TO PROVIDE A MINIMUM BASE WIDENING OF 4'.

NOTE B - THE SURFACE OVERLAY SHALL BE CARRIED TO THE CL OF THE ROAD AND NOTCHED AND SEALED.

NOTE C - SURFACE OVERLAY COURSE TO BE EQUAL TO SURFACE COURSE OF TYPICAL PAVING SECTION OF SUBDIVISION.

NOTE D - CL OF ROAD TO BE MILLED AT DEPTH OF 1 1/2" x 1' WIDE USING A MILLING MACHINE.

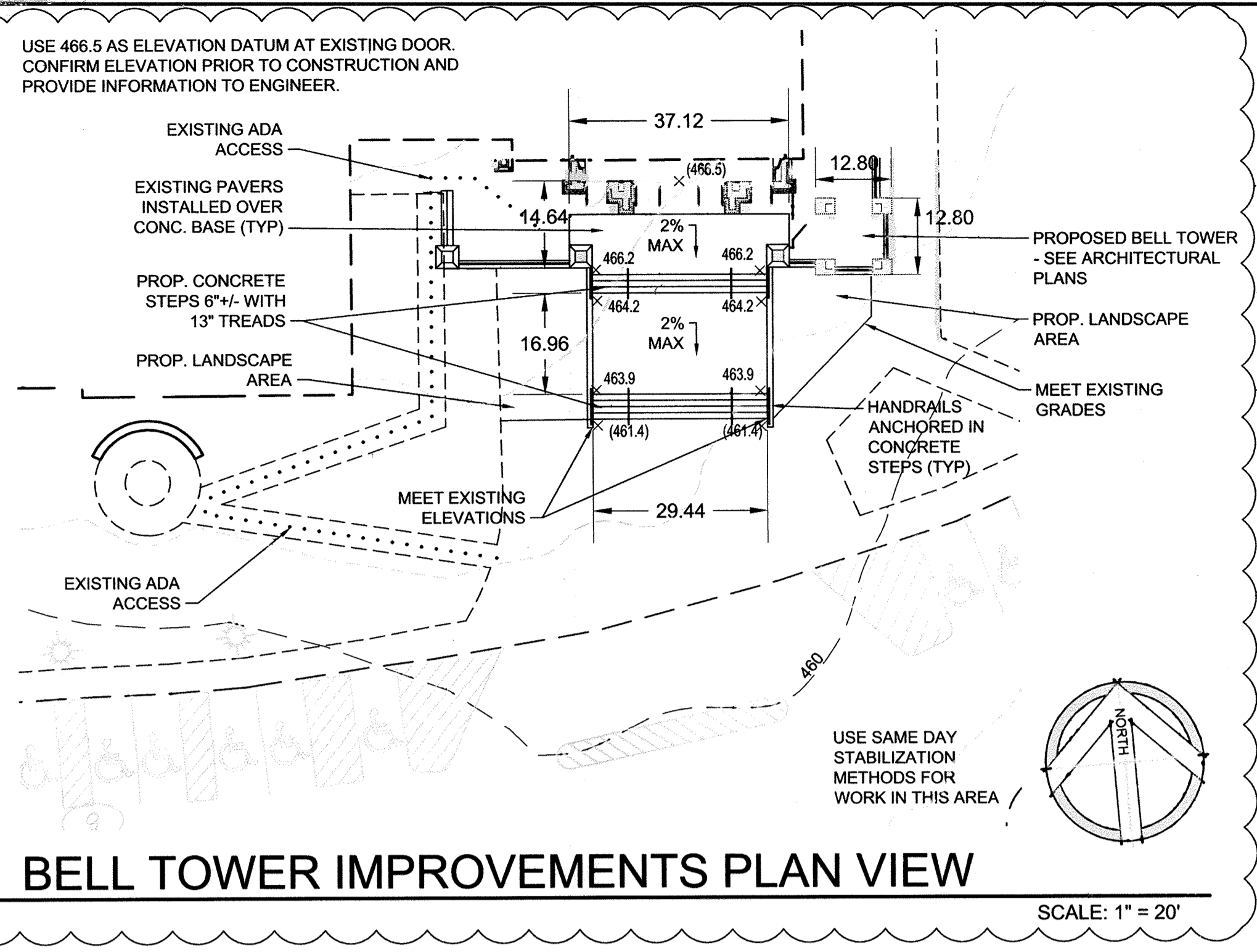
WIDENING STRIPS ALONG EXISTING ROADWAYS
NO SCALE



MODIFIED TYPE 'C' ENDWALL (HW-1)
(HOCQ SD-5.21)
NOT TO SCALE



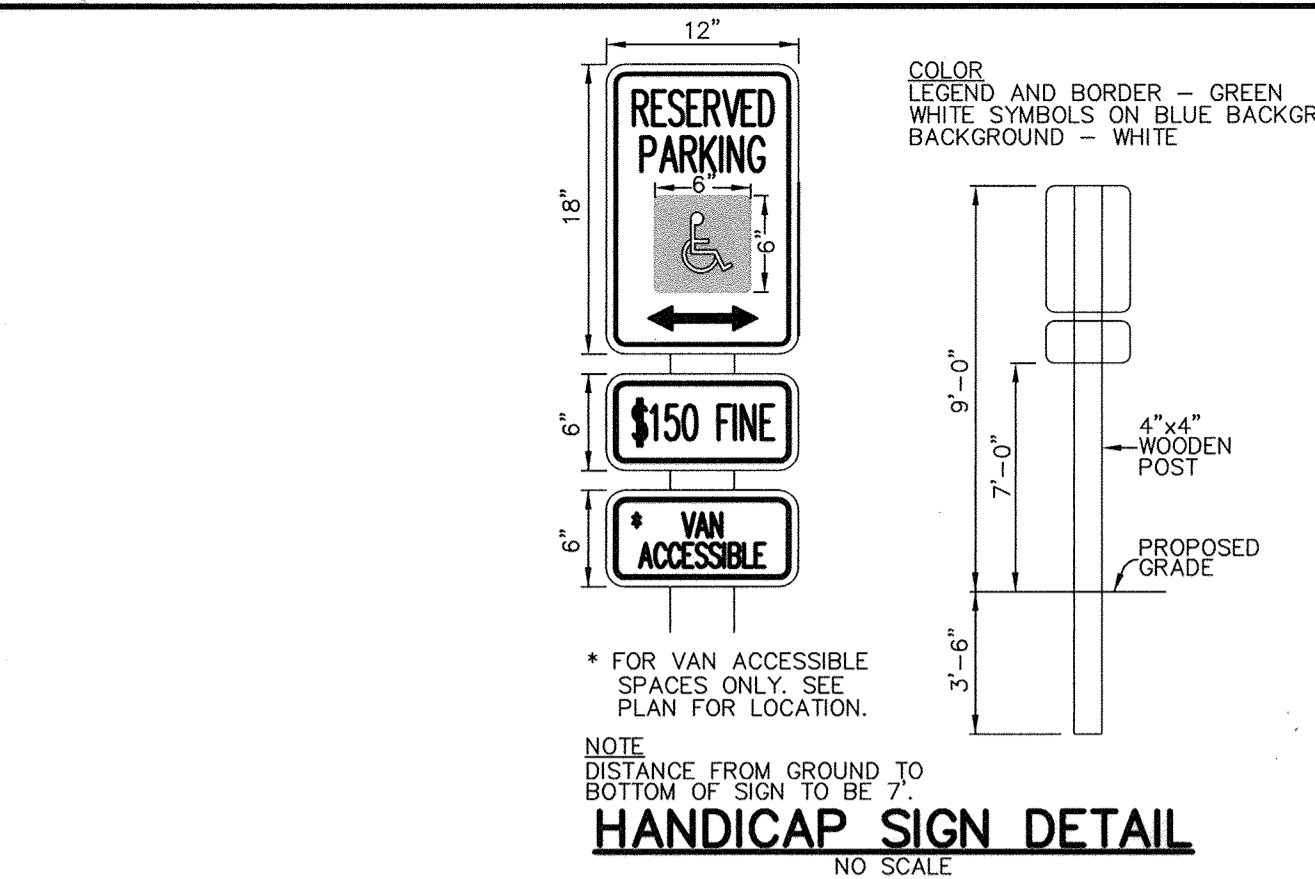
BELL TOWER RELOCATION ELEVATION
NOT TO SCALE



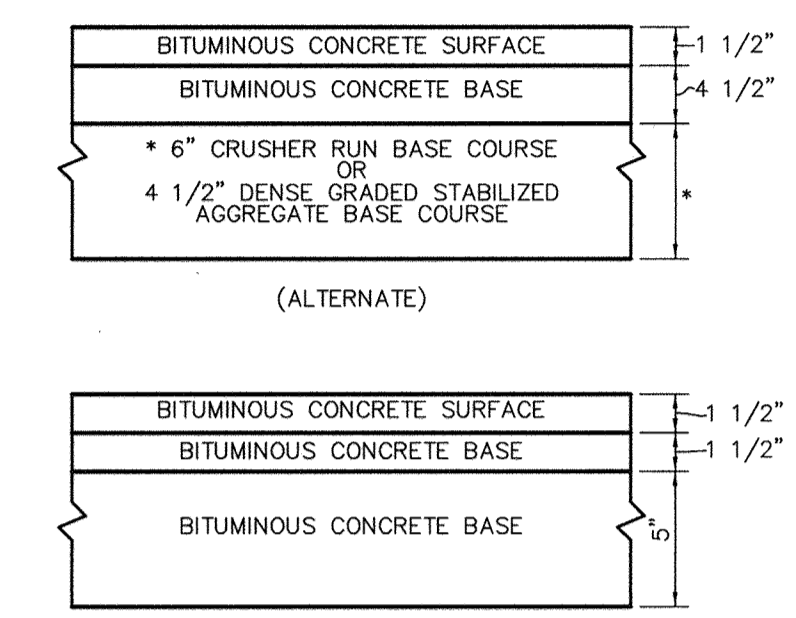
BELL TOWER IMPROVEMENTS PLAN VIEW
SCALE: 1" = 20'

USE 466.5 AS ELEVATION DATUM AT EXISTING DOOR. CONFIRM ELEVATION PRIOR TO CONSTRUCTION AND PROVIDE INFORMATION TO ENGINEER.

USE SAME DAY STABILIZATION METHODS FOR WORK IN THIS AREA

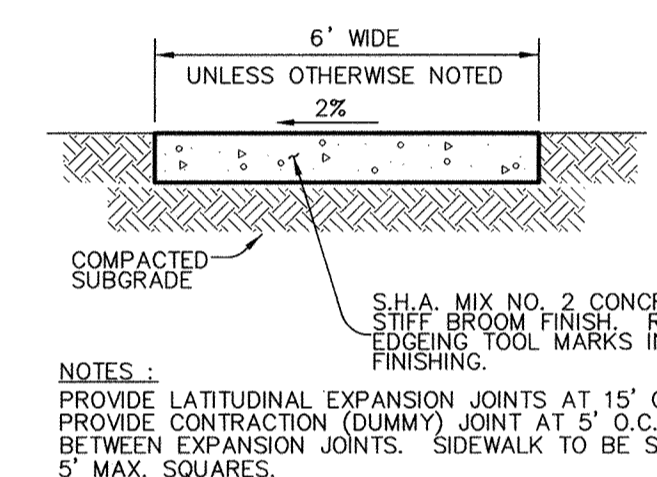


HANDICAP SIGN DETAIL
NO SCALE



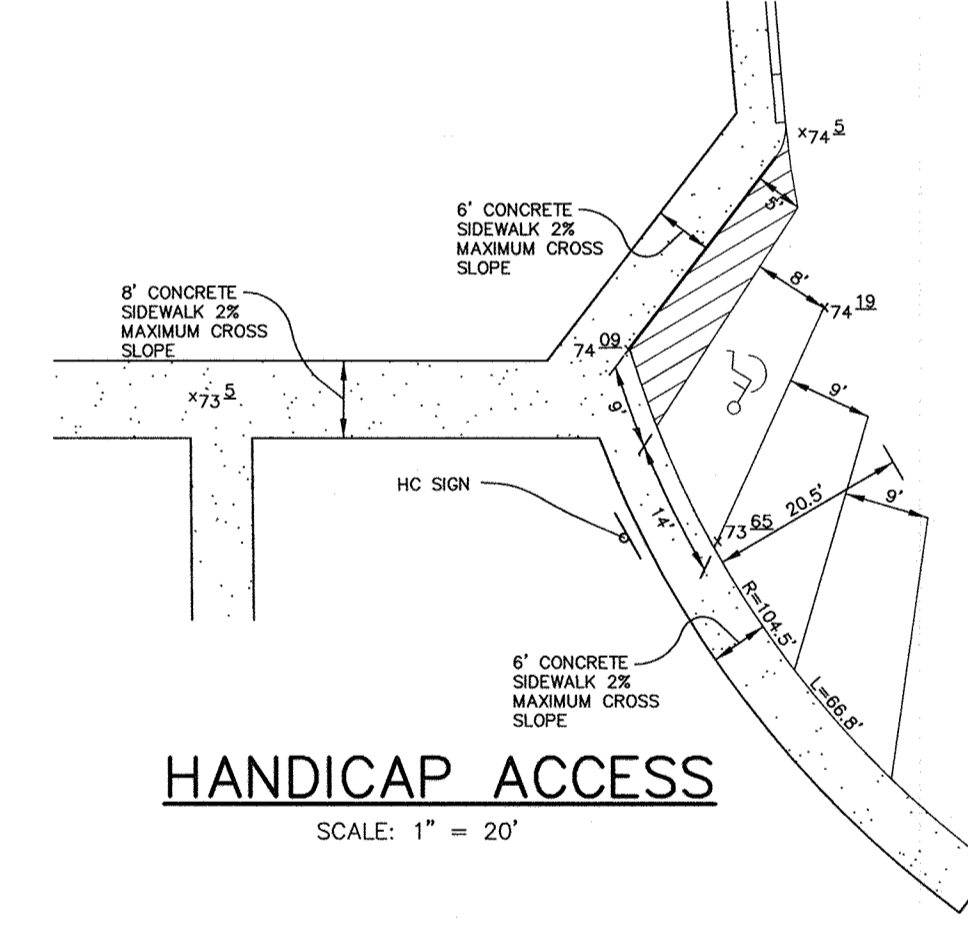
HOWARD COUNTY DESIGN MANUAL VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)

P-3 PAVING
NO SCALE

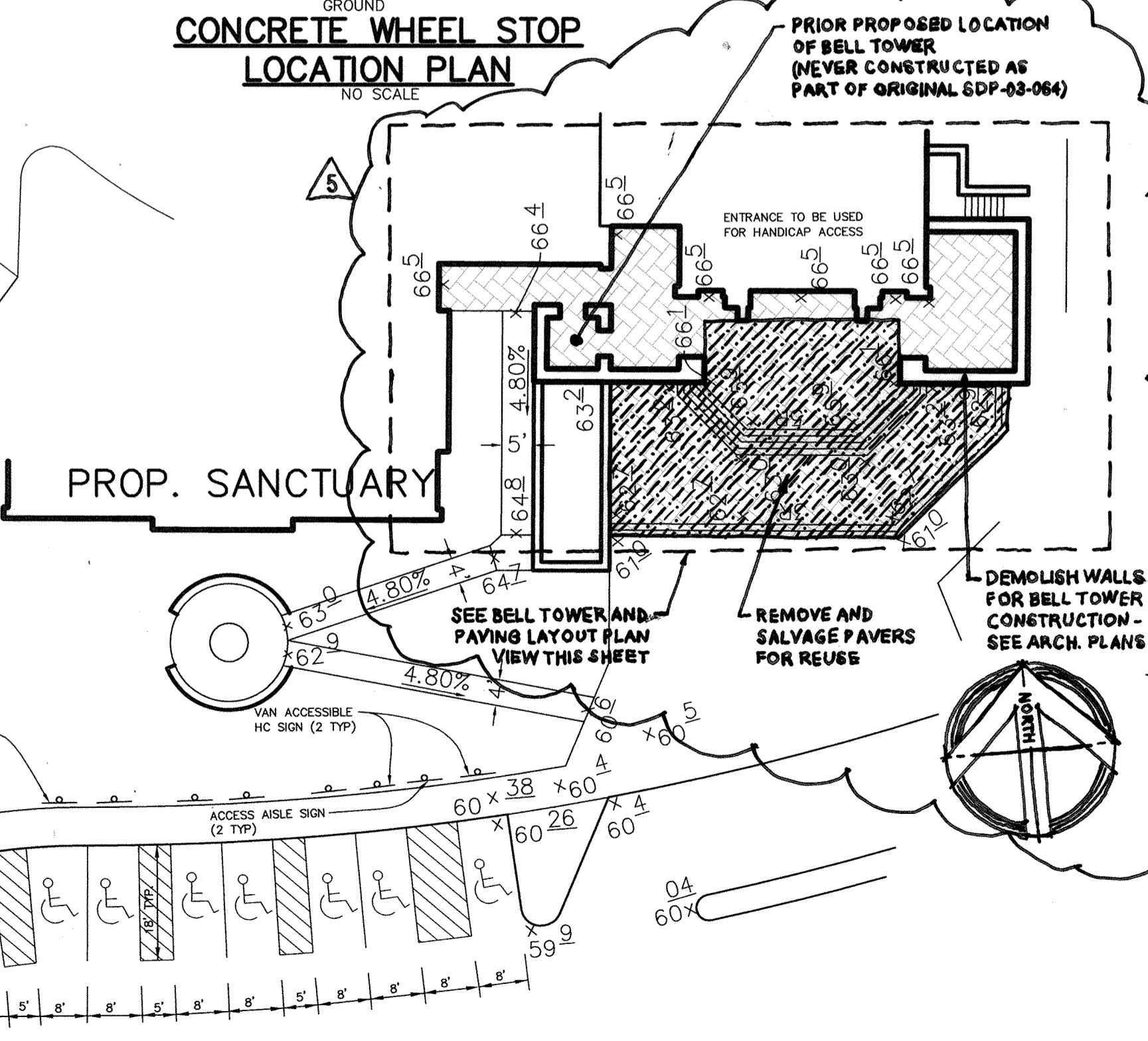


SIDEWALK DETAIL
NO SCALE

NOTES: PROVIDE LATITUDINAL EXPANSION JOINTS AT 15' O.C. (MAX.) PROVIDE CONTRACTION (DUMMY) JOINT AT 5' O.C. INTERVALS BETWEEN EXPANSION JOINTS. SIDEWALK TO BE SCRIBED IN 5' MAX. SQUARES.

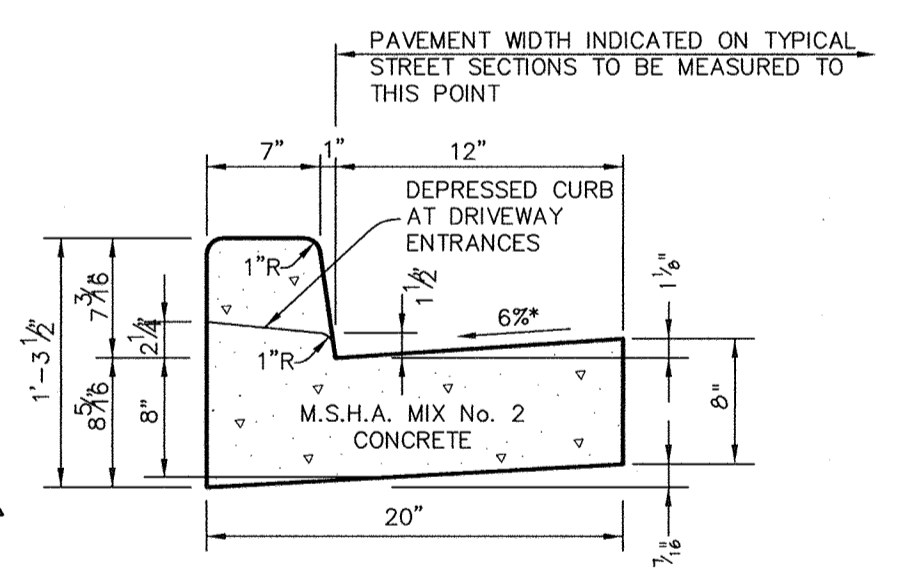


HANDICAP ACCESS
SCALE: 1" = 20'



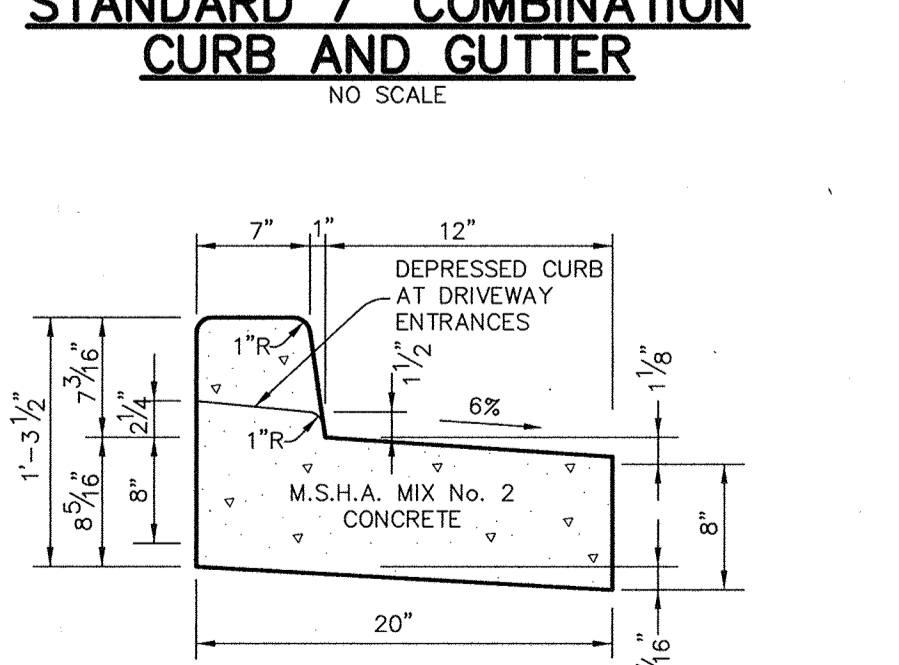
CONCRETE WHEEL STOP LOCATION PLAN
NO SCALE

PROP. SANCTUARY HANDICAP ACCESS
SCALE: 1" = 20'

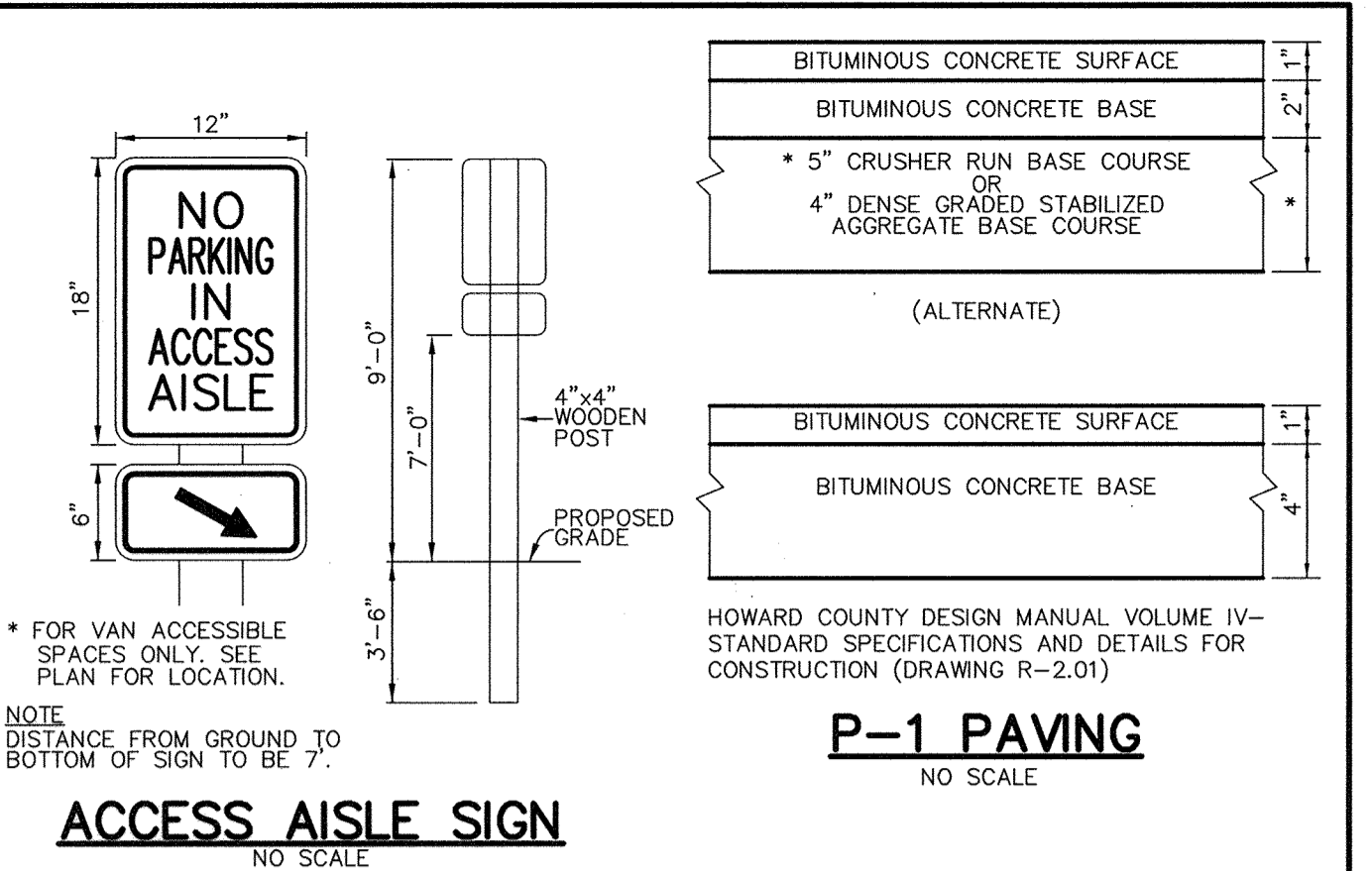


HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-3.01).

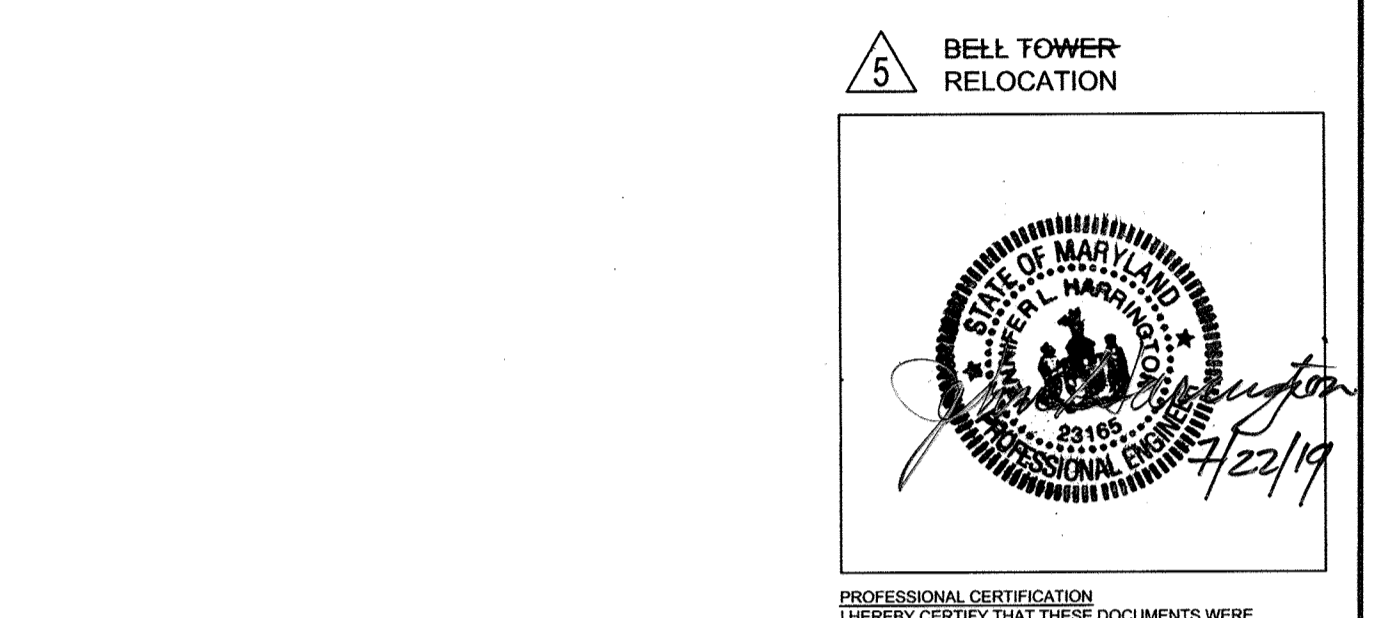
STANDARD 7" COMBINATION CURB AND GUTTER
NO SCALE



REVERSE 7" COMBINATION CURB AND GUTTER
NO SCALE

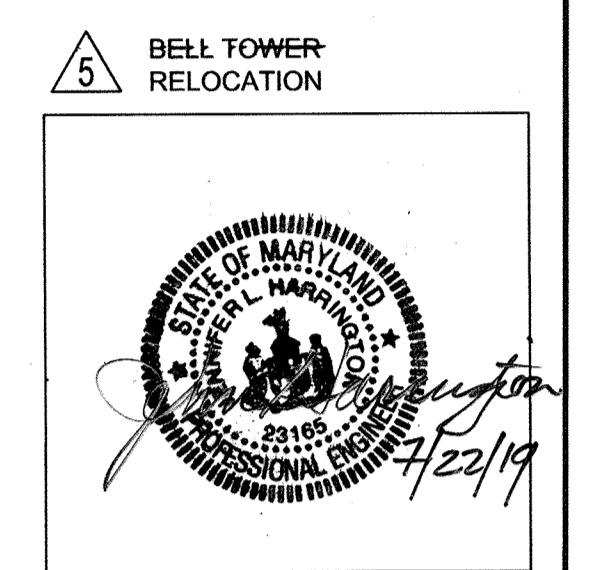


ACCESS AISLE SIGN
NO SCALE



HOWARD COUNTY DESIGN MANUAL VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)

P-1 PAVING
NO 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. 23195, EXPIRATION DATE: 07/19/15.

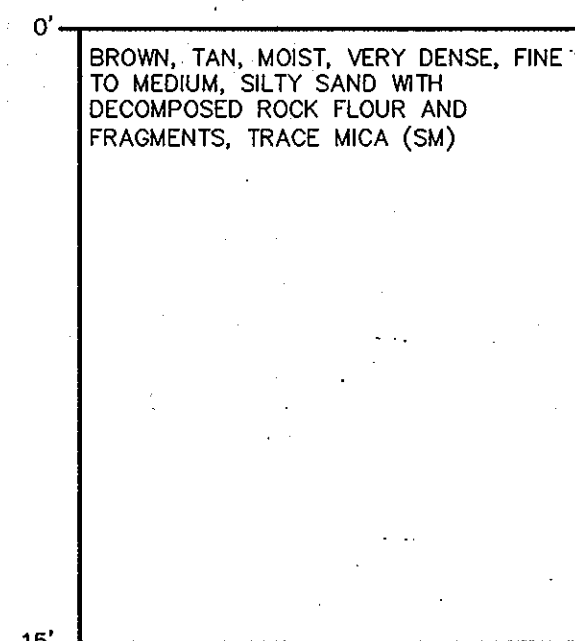
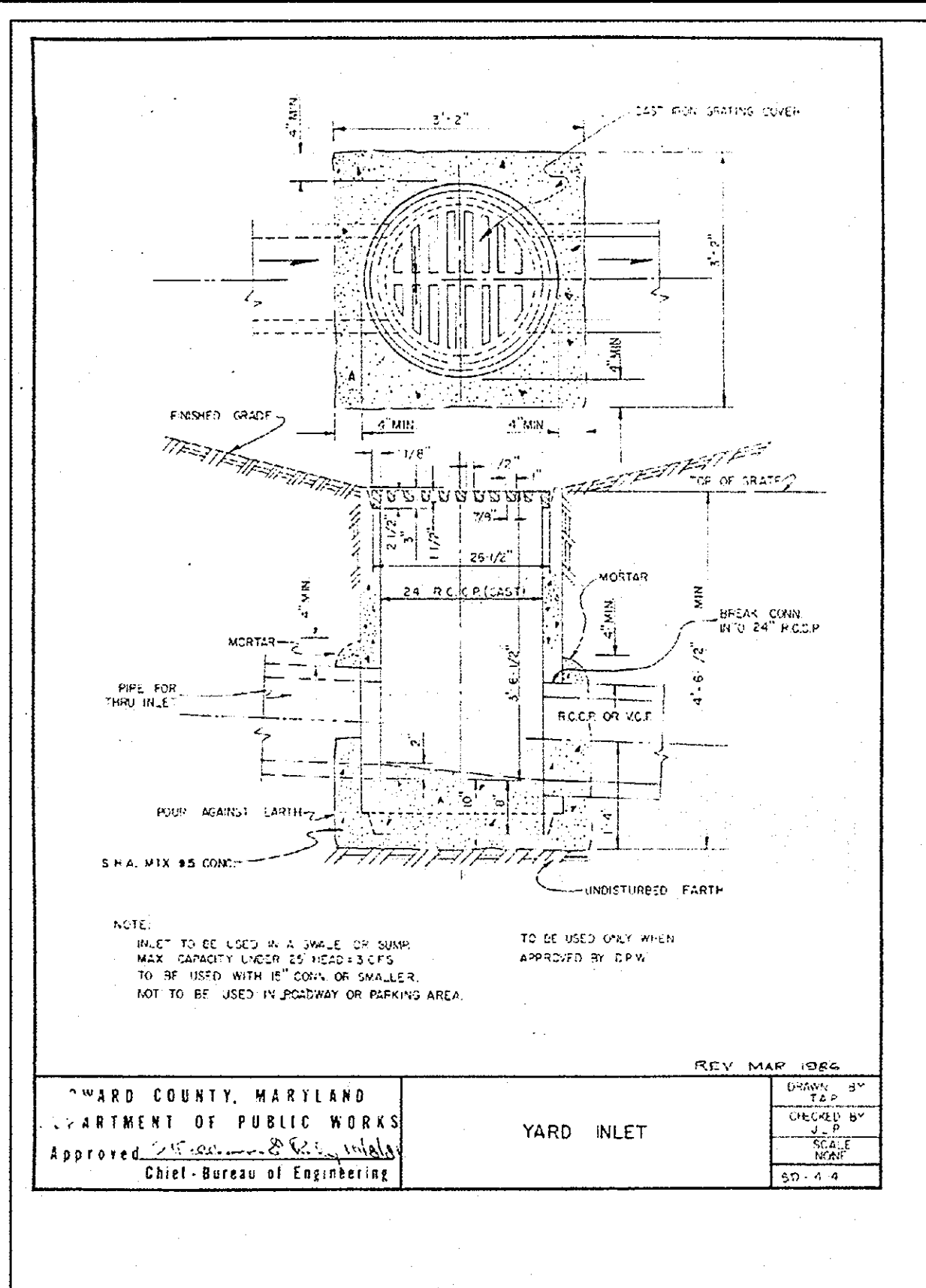
THIS SEAL FOR REVISIONS MADE BY SITE RESOURCES, INC.



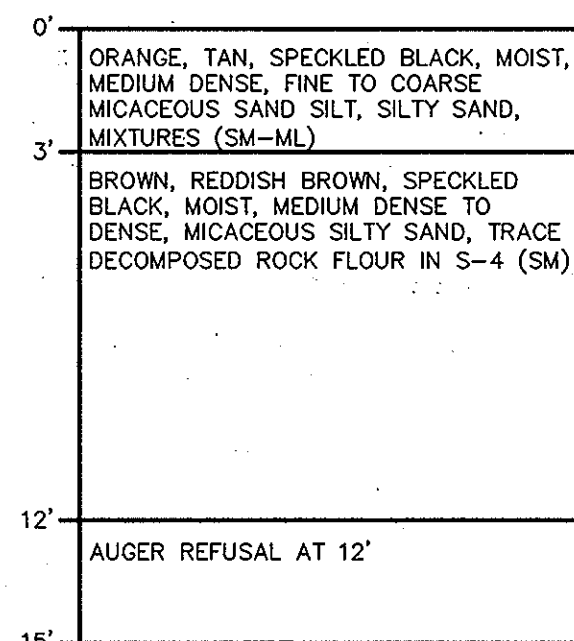
PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 23195, EXPIRATION DATE: 07/19/15.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>Frank H. Coughlin</i> DIRECTOR	11/16/06 DATE
<i>John L. Luca</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	12/28/05 DATE
<i>Andy Hunter</i> CHIEF, DIVISION OF LAND DEVELOPMENT	1/2/06 DATE
DATE NO.	REVISION
11/9/12 4	ADDITION OF NEW GYMNASIUM/ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING
9/28/05 1	REMOVED DETAIL FOR MODIFIED TYPE A HEADWALL
OWNER / DEVELOPER	
MOST REVEREND WILLIAM H. KEELER ARCHBISHOP OF BALTIMORE P. O. BOX 155, SAINT LOUIS CHURCH ROUTES 108 & 32 CLARKSVILLE, MD 21029 PHONE: 410-531-6040 C/O MONSIGNOR JOSEPH L. LUCA	
PROJECT	
ST. LOUIS CHURCH IMPROVEMENTS PHASE II NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS 12500 MD. ROUTE 108	
AREA	
PARCELS 196.2.9 AND 30.3 TAX MAP 34 5th ELECTION DISTRICT ZONED RR-DEO CLARKSVILLE HOWARD COUNTY, MARYLAND 21029	
TITLE	
DETAILS	
Patton Harris Rust & Associates, p.c. Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
DRAWING FILE: REVISED SDP\C901DET.DWG	
DESIGNED BY: A.C.R.	
DRAWN BY: M.A.D.	
PROJECT NO: 00370	
DATE: DECEMBER 8, 2005	
SCALE: AS SHOWN	
DRAWING NO. 20 OF 35	

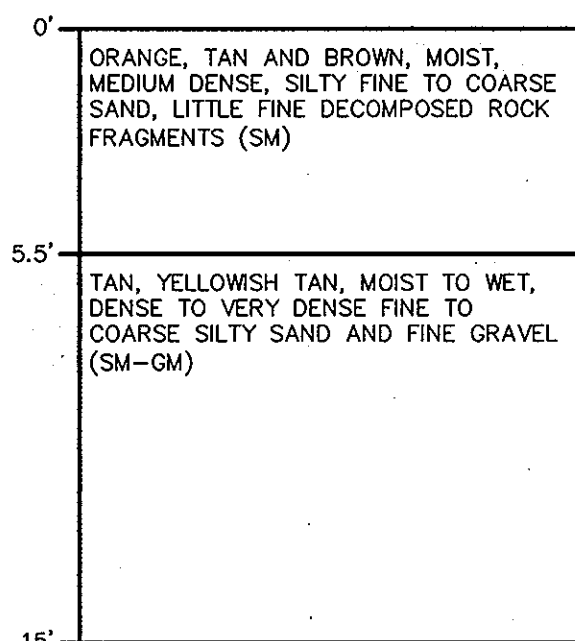
DATE	NO.	REVISION
10/10/18	5	BELL TOWER ADDITION



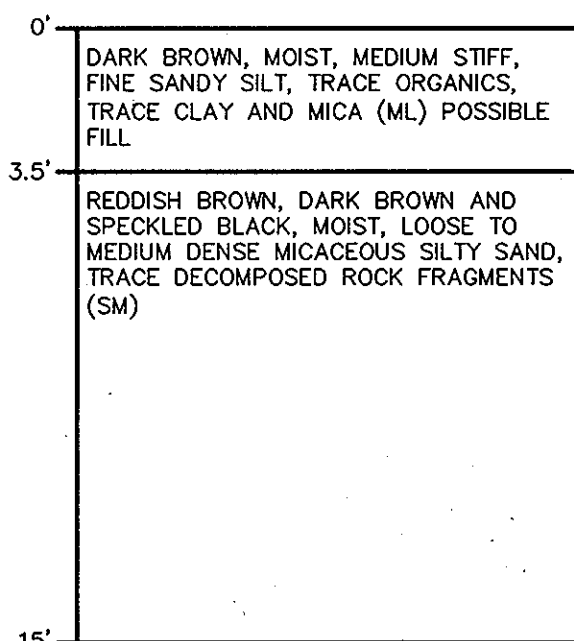
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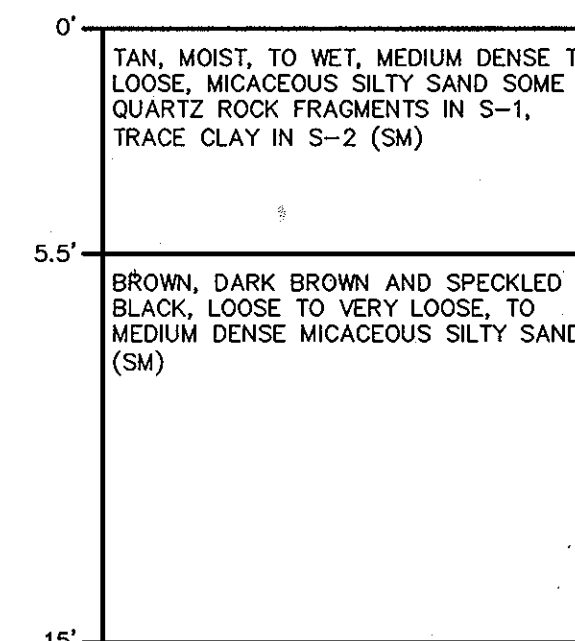
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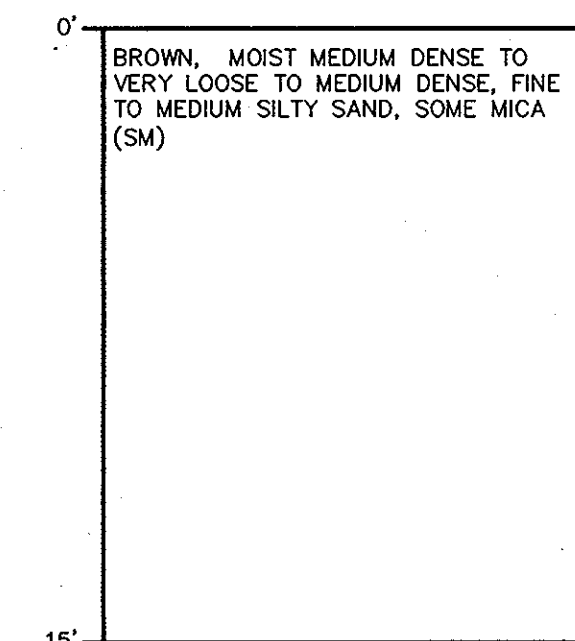
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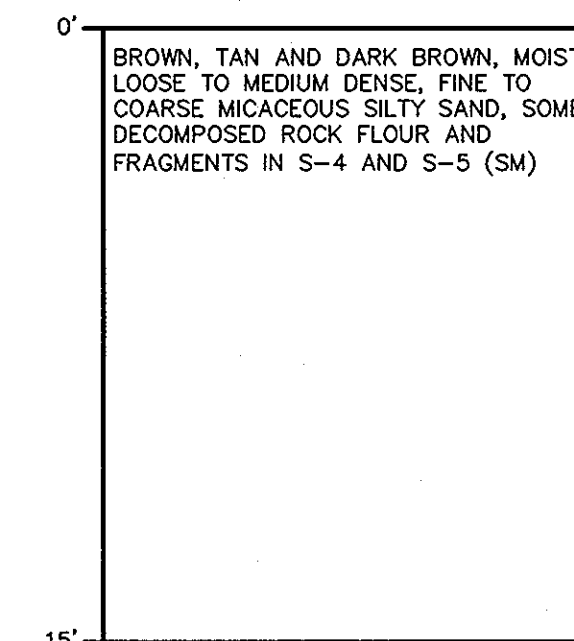
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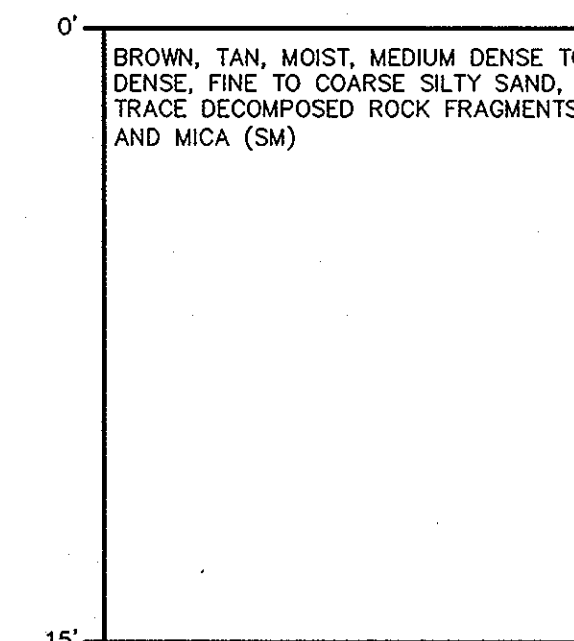
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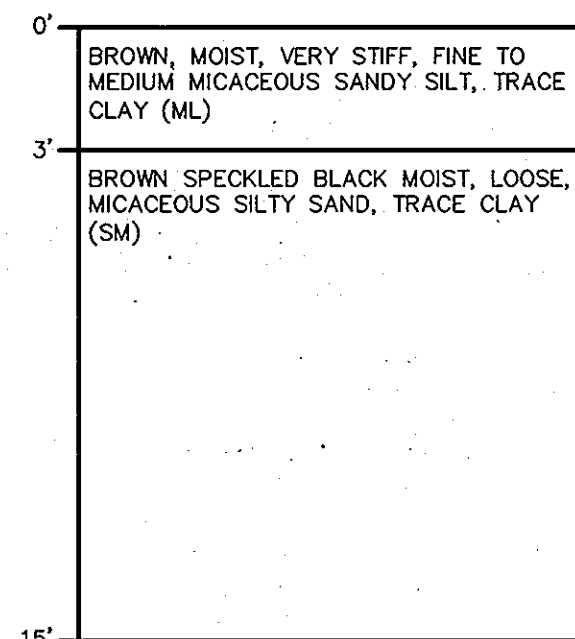
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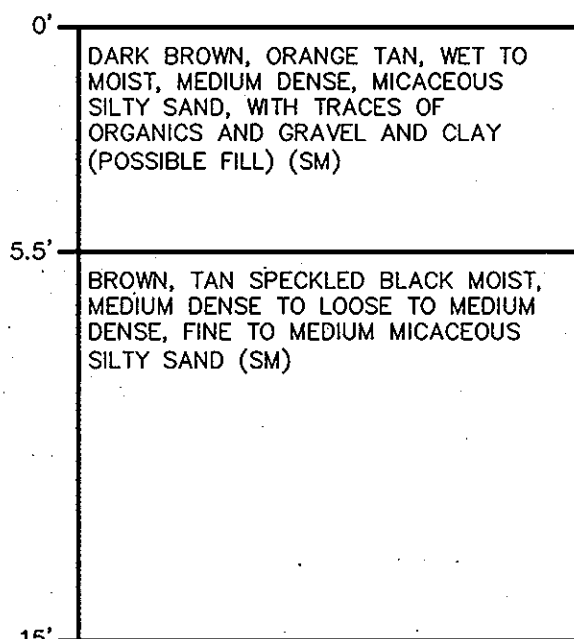
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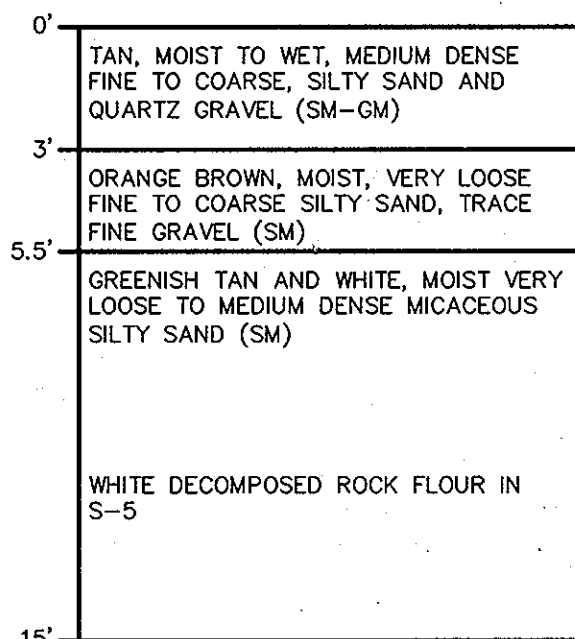
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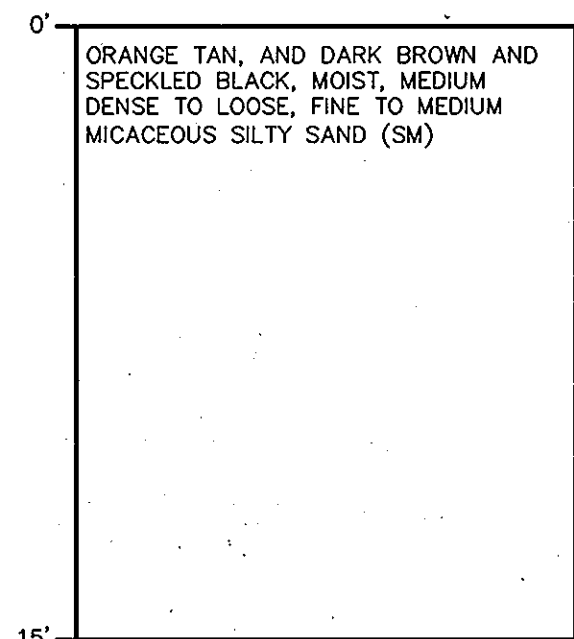
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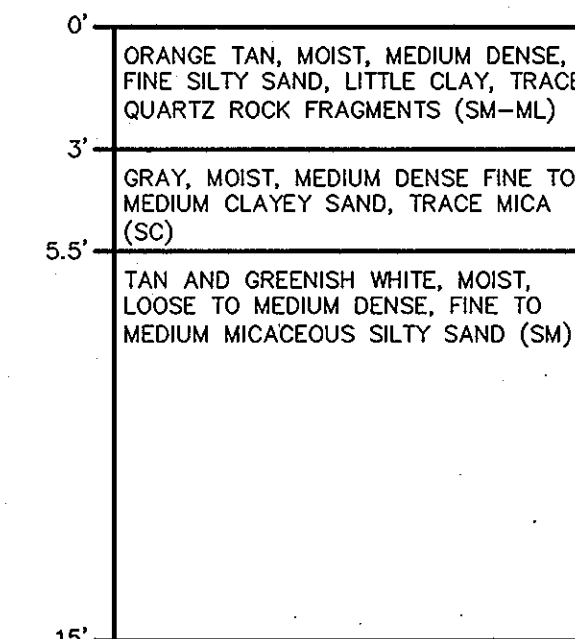
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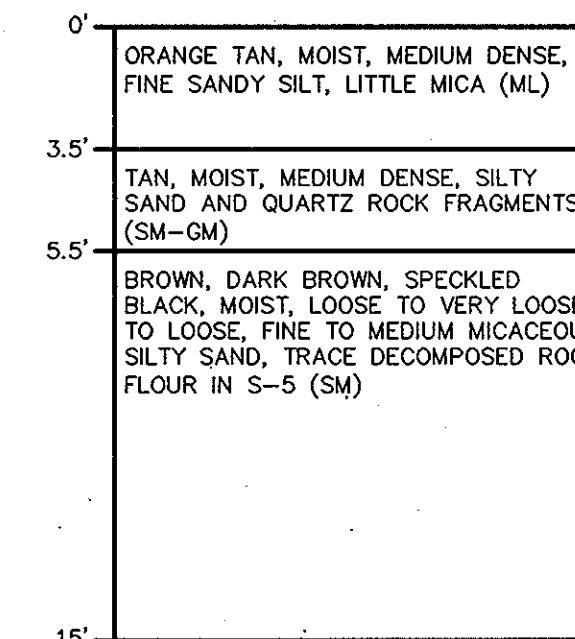
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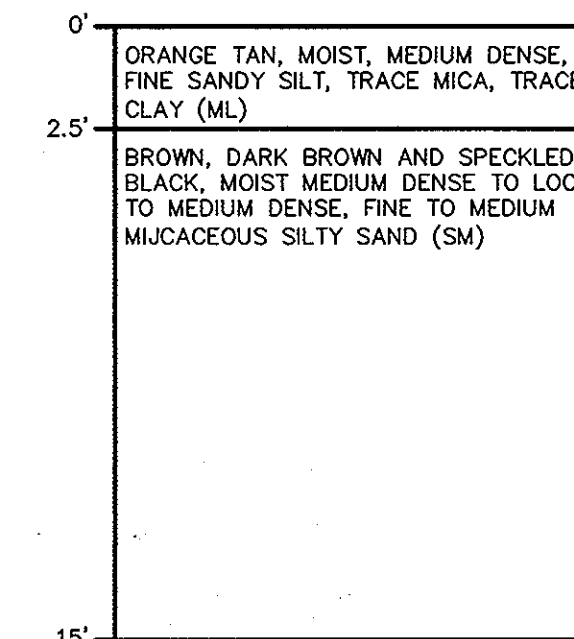
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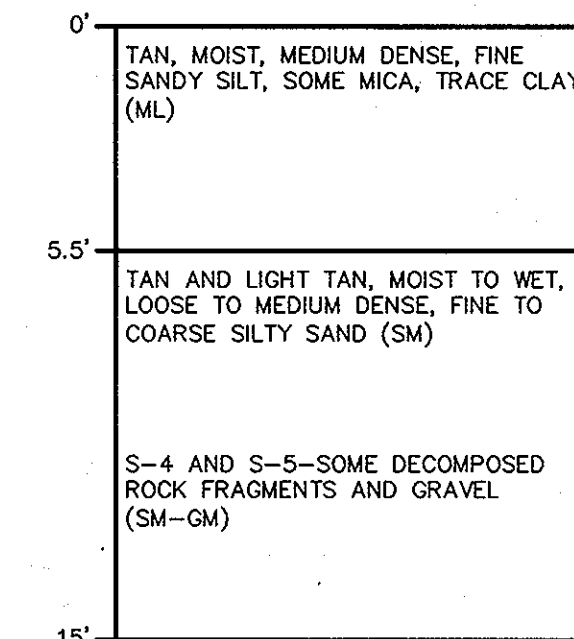
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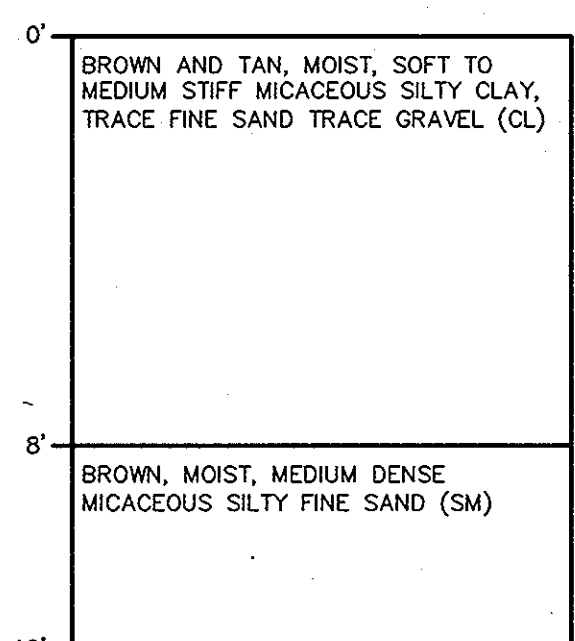
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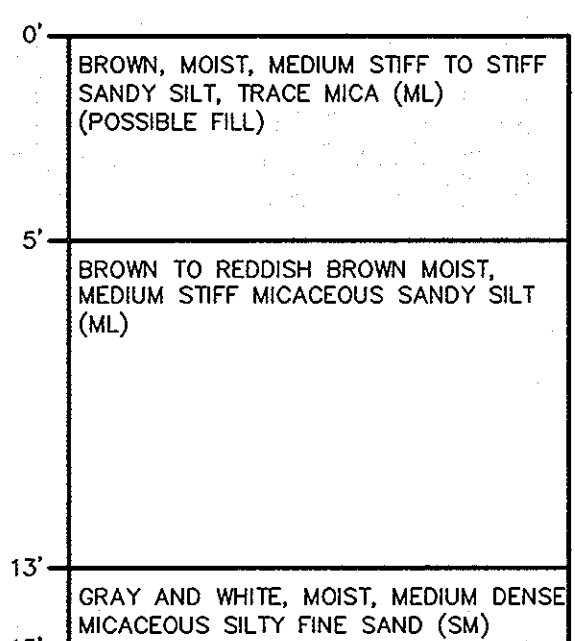
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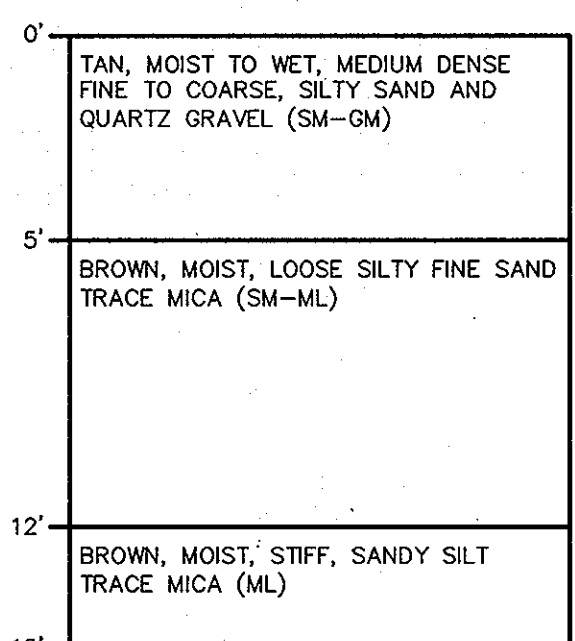
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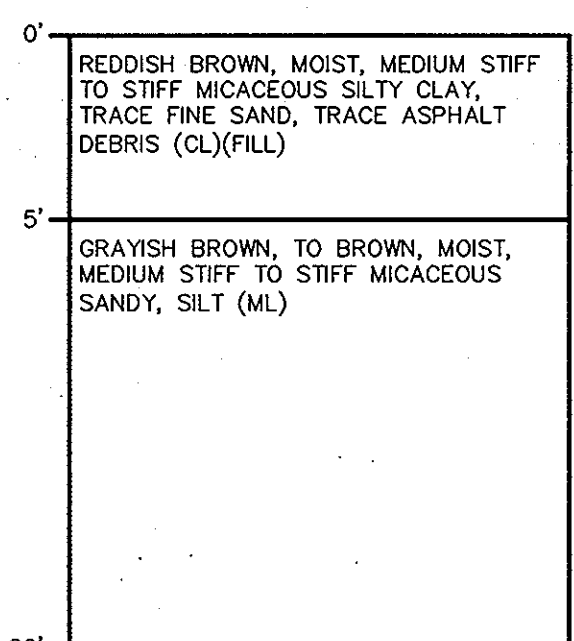
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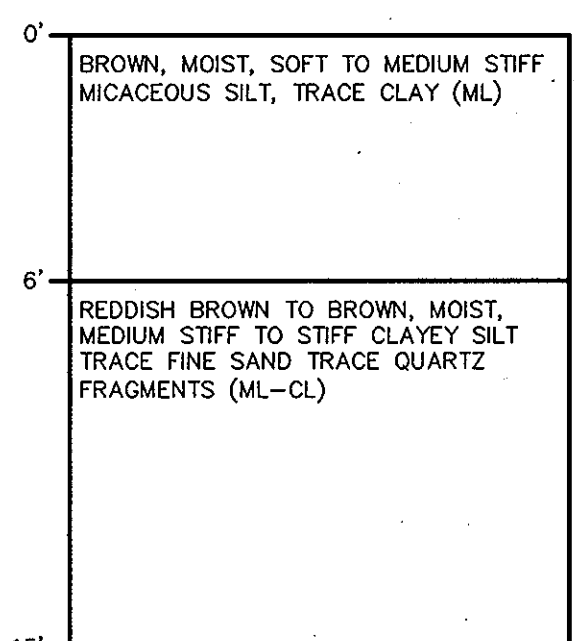
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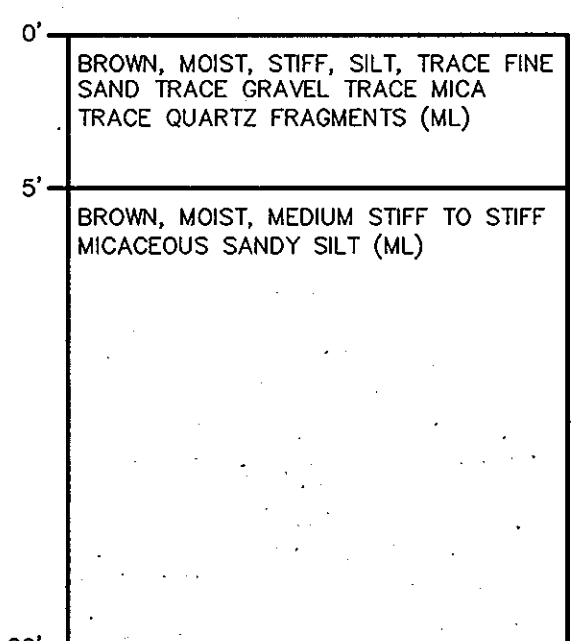
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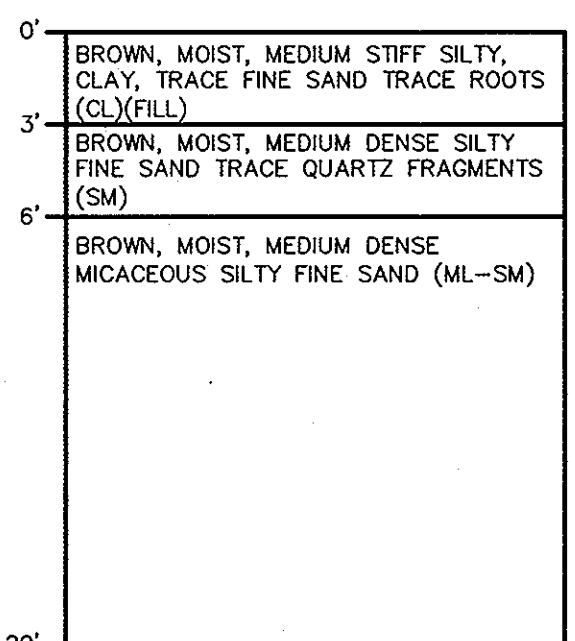
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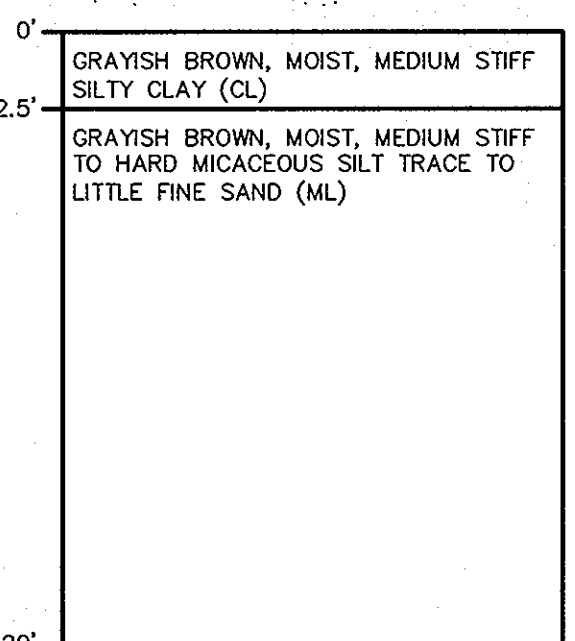
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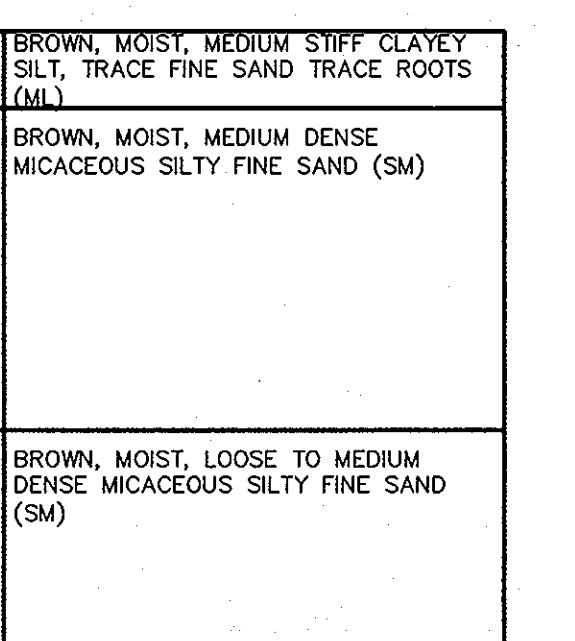
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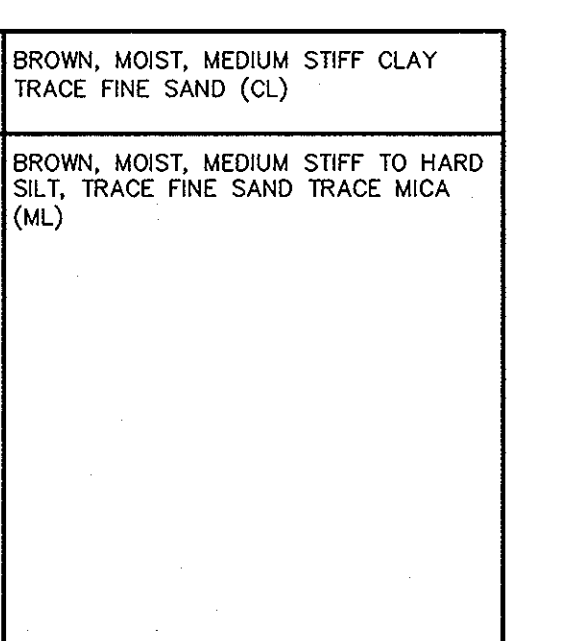
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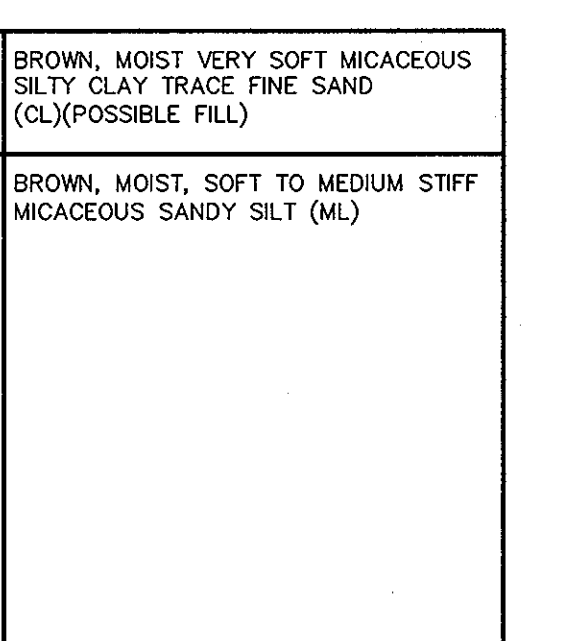
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NO SCALE



BORING B-9
NO SCALE



BORING B-10
NO SCALE



BORING B-11
NO SCALE

NOTES:

1. MOUNTING HEIGHT OF ALL PARKING LOT LIGHTS SHALL BE 30'.
2. ALL LIGHTS ARE SOMERSET TYPE BY HOLOPHANE 214 OAKWOOD AVENUE NEWARK, OHIO 43055 (740)345-9631 www.holophane.com
3. ALL POLES AND HEADS SHALL BE BRONZE (BZ)
4. ALL FIXTURES SHALL BE 250W HPS

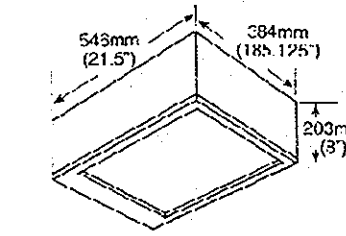
Ordering Data

How to construct a catalog number: Example: SSM1-220P-12-87-PM-P5

1	2	3	4	5	6
---	---	---	---	---	---

Cat. no. Description

- 1 Luminaire
- SPS1
Somerse - J, listed 15' H
Wet location, 42", CSA certified
- 2 Wattage and Source
- 100W
- 150W
- 250W
- 400W
- 175W/41
- 250W/41
- 400W/41
COU/HPS
50W/SSU/HPS
250W/HPS
400W/HPS
75W/41
250W/41
400W/41
- 3 Voltage
- 120V
- 20
- 24
- 27
- 34
- 48
- 147
- 175
120V
208V
240V
277V
347V
480V
147V
175V
175V/41
250V/41
400V/41
- 4 Color
- BZ
- BK
- WH
- GR
Bronze
Black
White
Gray
- 5 Optical
- FM
- CL
- FF
- CF
Prismatic, borosilicate glass +
Clear tempered glass
Forward throw with prismatic glass†
Forward throw with clear tempered glass†



- 1 Lamp for luminaire. If two sockets will be provided, by Holophane.
- 1 Lamp for luminaire. If two sockets will be provided, by Holophane.

- 6 Options & Accessories (field installed)
- P5
- F1
- F2
- SM1W3*
- SM1W4*
- SM1FB*
- SM1AFM*
Recessed luminaire
120, 240, 277, 347V/41
208, 240, 480V/41
Wall bracket, dome mount
Wall bracket with 42mm (1.65") arm
51mm (2.0") pipe adaptor
140mm (5.5") arm

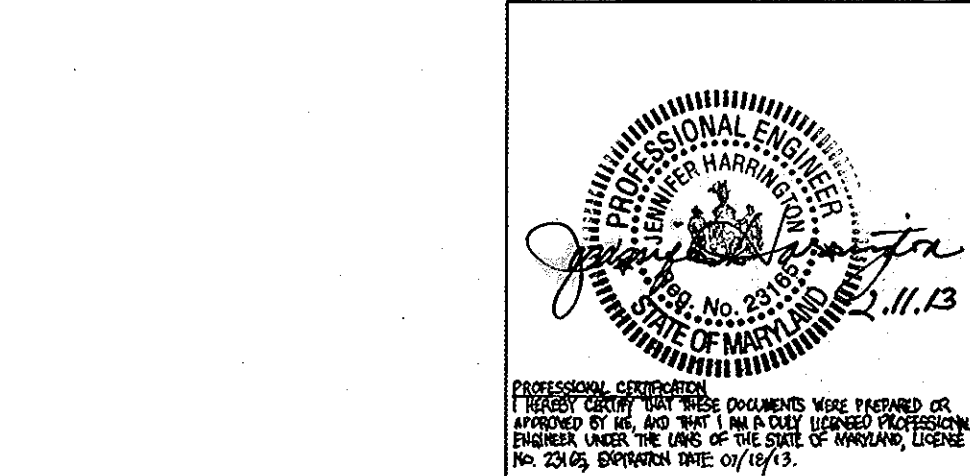
- Round pole fitters
- SM1L1*
- SM1L2*
- SM1L3*
- SM1L4*
- SM1L5*
- SM1L6*
Single unit, close mount
Single unit, 46mm (1.81") arm mount
Two units (opposite arrangement), close mount
Two units (opposite arrangement), arm mount
Two units (L" arrangement), arm mount
Three units (L" arrangement), arm mount
Four units (L" arrangement), arm mount

- *Sockets color - BK, WH or GR
- †Photoconductor recastable only, insert "X" before color on round pole fitters. (Not available with W3, W5, or FB mounting accessories)

Order number Job name



THIS SEAL FOR REVISIONS MADE BY SITE RESOURCES, INC.

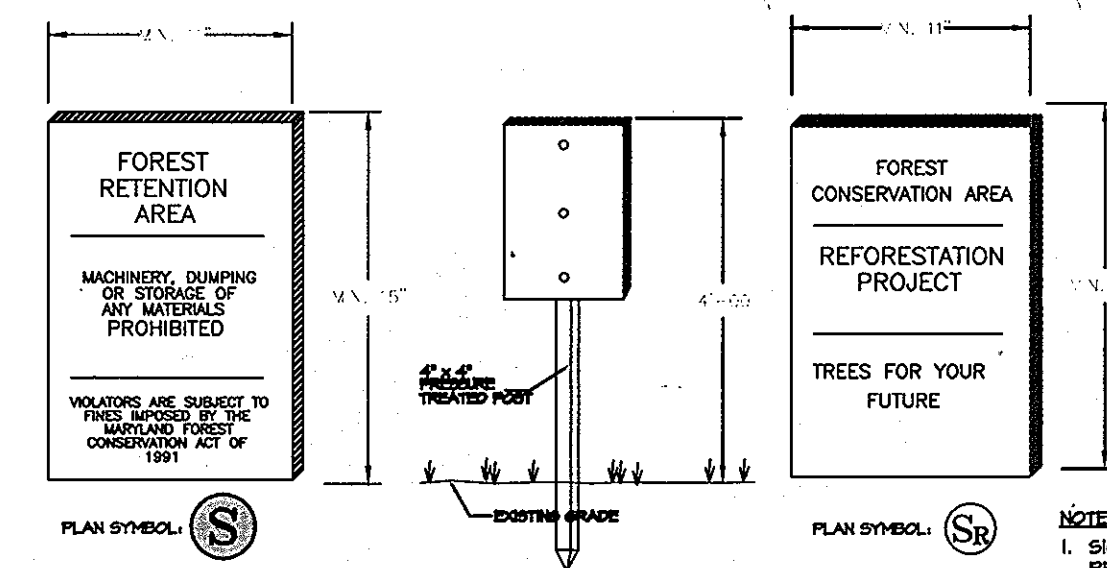
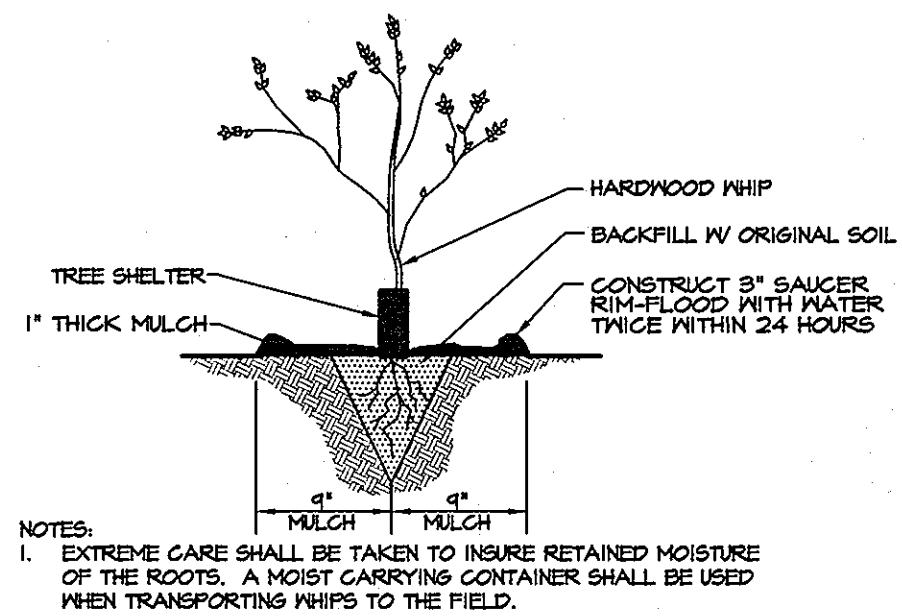
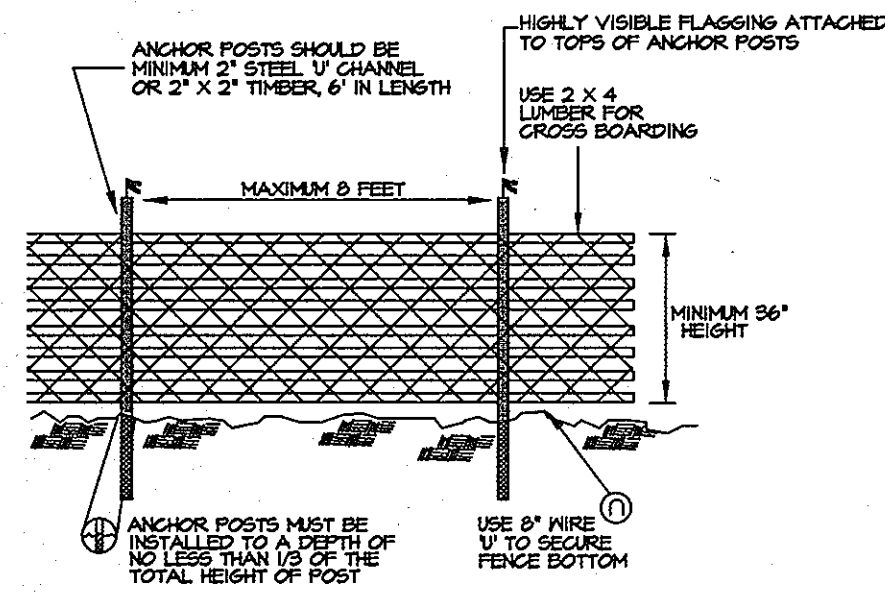


APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
Mark H. Ryple 1/3/14
Director DATE
John H. Ryple 12/18/13
Chief, Development Engineering Division DATE
Cindy H. Ryple 1/3/14
Chief, Division of Land Development DATE

11/9/2012 4 ADDITION OF NEW GYMNASIUM/ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING
DATE NO. REVISION
OWNER / DEVELOPER
MOST REVEREND WILLIAM H. KEELER
ARCHBISHOP OF BALTIMORE
P. O. BOX 155, SAINT LOUIS CHURCH
ROUTES 108 & 32
CLARKSVILLE, MD 21029
PHONE: 410-531-6040
C/O MONSIGNOR JOSEPH L. LUCA
PROJECT
ST. LOUIS CHURCH
IMPROVEMENTS PHASE 1
NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS
12500 MD ROUTE 108
AREA
PARCELS 196, 21 AND 36 TAX MAP 34
5th ELECTION DISTRICT ZONED RR-DEO
CLARKSVILLE
HOWARD COUNTY, MARYLAND 21029

TITLE
BORING LOGS AND DETAILS
Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

12/18/13 DATE
DESIGNED BY: A.C.R.
DRAWN BY: M.A.D.
PROJECT NO.: 00370
DATE: DECEMBER 8, 2005
SCALE: AS SHOWN
DRAWING NO. 21 OF 35
AIMEE C. REMINGTON #28923



- NOTES:
- BLAZE ORANGE OR BLUE PLASTIC MESH FENCE FOR FOREST PROTECTION DEVICE ONLY.
 - SUPER SALT FENCE MAY BE SUBSTITUTED FOR TREE PROTECTION FENCING.
 - BOUNDARIES OF RETENTION AREA WILL BE ESTABLISHED AS PART OF THE FOREST CONSERVATION PLAN REVIEW PROCESS.
 - BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICES.
 - AVOID DAMAGE TO CRITICAL ROOT ZONE. DO NOT DAMAGE OR SEVER LARGE ROOTS WHEN INSTALLING POSTS.
 - PROTECTION SIGNS ARE REQUIRED. SEE SIGN DETAIL.
 - FENCING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

WHIP PLANTING W/ TREE SHELTER DETAIL
NOT TO SCALE

REFORESTATION / FOREST RETENTION SIGN DETAIL
NOT TO SCALE

- NOTES:
- SIGNAGE SHALL BE LOCATED ON FOREST CONSERVATION / REFORESTATION / AFFORESTATION EASEMENT BORDER.
 - SEE PLAN FOR SPACING.

FOREST CONSERVATION SEQUENCE OF OPERATIONS

- Prior to beginning any grading operations on this site or on a respective lot, there shall be a preconstruction meeting held at the site which is to include the Contractor and representatives from Patton Harris Rust & Associates, pc. The Howard County Department of Planning and Zoning (DPZ) and the owner will be notified by the Contractor as to the time and place of the field meeting, should they wish to send a representative. The purpose of this meeting will be to review the approved FCP and to field verify the correct Limits of Disturbance (LOD).
- The Limits of Disturbance (LOD) pertinent to the preservation of wooded areas shall be staked in the field with final adjustments being made as necessary to insure adequate protection of the Critical Root Zone of trees designated for retention. Stakes to be used shall be those specified for the "TREE PROTECTION DEVICE" to which approved protective material will be attached. Alternate means of defining the LOD may be used if approved by the DPZ.
- All forest retention areas shall be protected by highly visible, well anchored temporary protection devices (see detail), which shall be securely in place prior to any clearing or grading operations.
- Install tree protection signage.
- Grading operations or other construction operations which could dislodge or otherwise damage the protective devices shall be avoided along the edges of the LOD lines if possible. Any protective devices which are damaged during site construction operations shall be properly repaired immediately by the Contractor.
- After site grading and parking lot construction have been completed, all trees adjacent to the LOD line shall be inspected for indications of crown die-back (summer indicator), damage within respective critical root zones or any dead wood or other conditions which might be hazardous to pedestrians, buildings, utility lines vehicular access ways or parked vehicles.
- Should there be evidence of any damage to tree trunks, branches or the critical root zone of trees within the protected areas, or to isolated specimen trees to be preserved, the damage shall be examined within a period of two (2) days from the date of observation by a licensed tree care professional. Exposed roots should be covered immediately to a depth of 6 - 8 inches with soil, preferably mixed with 50% peat moss or leaf mold.
- Remove damaged, dead or dying trees or limbs only if the trees or limbs pose an immediate safety hazard to buildings, utility lines, vehicles, or access and egress drives or pedestrian areas. Trees designated for pruning or removal shall be pruned or removed using equipment and methods which will not damage or destroy adjacent large trees or understory trees or shrubs designated for retention.
- All temporary forest protection devices will be carefully removed after all general construction, necessary tree surgery, removal of debris, etc. regrading and reseeding of sediment and erosion control disturbance have been completed and acceptance and approval of the work and site conditions have been given by the DPZ.
- After forest retention area has been stabilized, reforestation planting may begin.
- Once reforestation planting is complete, a 24 month monitoring / inspection period may begin.

Howard County Forest Conservation Worksheet

PROJECT NAME: St. Louis Church COUNTY FILE #: _____
DATE: 9/20/2005 PHR-A PROJECT #: 00370

Site Data PARCELS 196, 24, AND 30

A. Total site area (includes 2.52 acre for offsite pond)	21.65
B. Areas in 100 year floodplain	0.00
Areas in agriculture use and preservation parcels	0.00
Other: Area disturbed under SDP 79-73	3.10
Area disturbed under SDP 90-206	0.75
C. Net Tract Area (A-B)	17.80
D. Forest Cover on net tract area	0.90
E. Amount of Net Tract Area Forest to be cleared per plan	0.16
F. Reforestation requirement percent by land use category	20%
G. Afforestation requirement percent by land use category	15%

Break Even Point

A. Area of forest above conservation threshold	0.00
B. Amount of forest to retain w/o mitigation	0.90
C. Forest clearing permitted w/o mitigation	0.00

Reforestation Calculations

A. Net Tract Area	17.80
B. Total forest within Net Tract Area	0.90
C. Net Tract Area forests to be cleared by development plan	0.16
D. Forest area remaining	0.74
E. Reforestation threshold in acres	3.56
F. Reforestation Debt above threshold	0.00
below threshold	0.32
G. Reforestation credit	0.00
H. REFORESTATION OBLIGATION	0.32

Afforestation Calculations

A. Net Tract Area	17.80
B. Total forest within Net Tract Area	0.90
C. Afforestation threshold in acres	2.67
D. AFFORESTATION OBLIGATION (C-B)	1.77

TOTAL REFORESTATION + AFFORESTATION OBLIGATION 2.09

NOTE: TOTAL SITE AREA, NET TRACT AREA, AND FOREST OBLIGATION INCLUDE 2.52 ACRES OF OFFSITE DISTURBANCE FROM ADJACENT PROPERTY

PLANTING SPECIFICATIONS

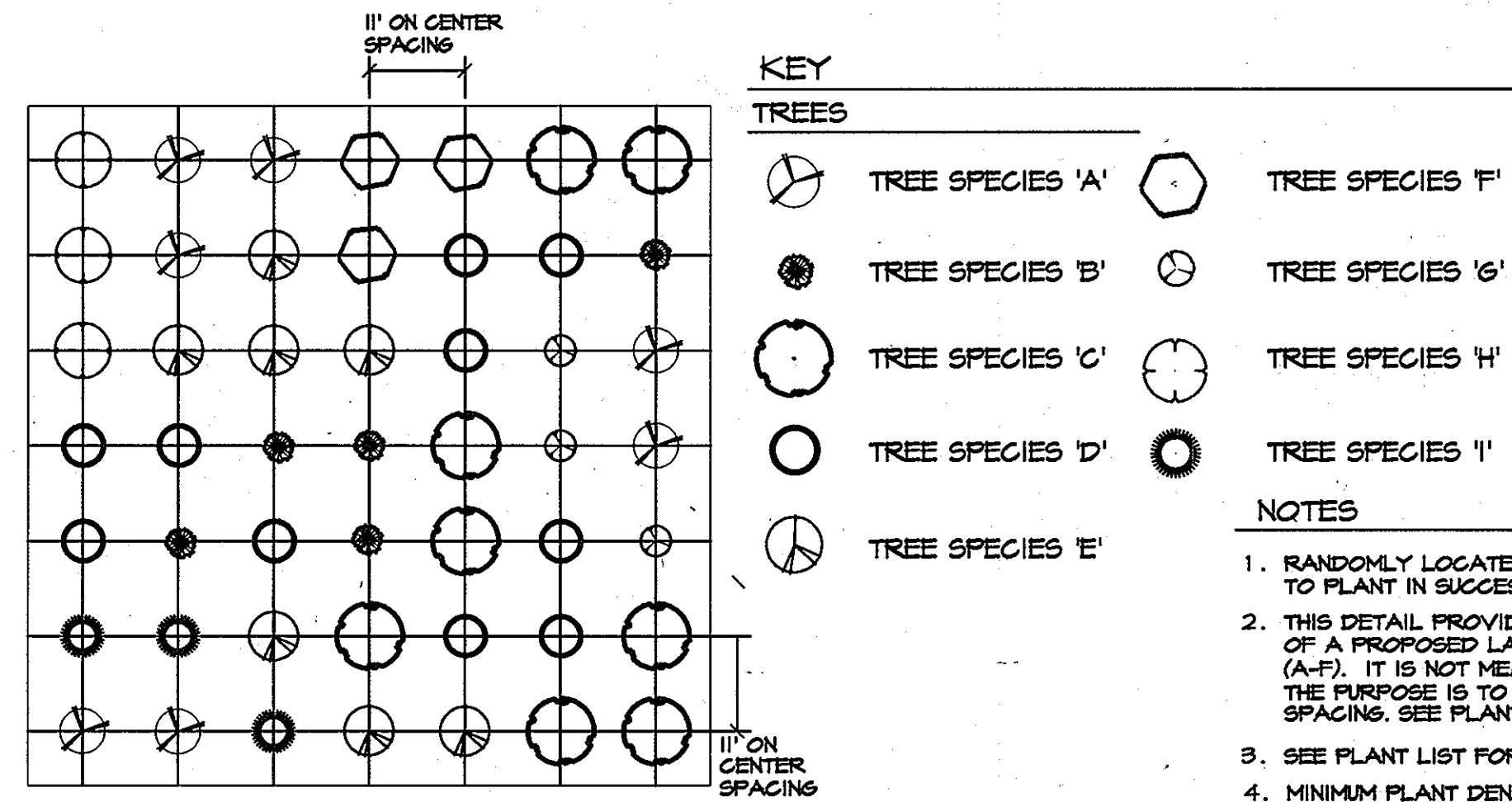
AFFORESTATION OR REFORESTATION MAINTENANCE AND REPLACEMENT REQUIREMENTS

A two year (24) month maintenance and replacement warranty period is required for all newly planted materials. The maintenance and replacement warranty period shall commence upon the date of the written acceptance by the Owner of the planted areas. A written warranty will be delivered to the Owner upon acceptance of the planted areas. Maintenance and replacement shall be provided by the Contractor responsible for the initial planting operations and related work. All landscape plant material included as forest conservation credits shall be covered under this maintenance and replacement warranty period.

I. MAINTENANCE: The Contractor shall field check the newly planted area(s) and shall provide the following maintenance items in accordance with the following schedule which shall begin after the completion and acceptance of the initial Afforestation or Reforestation planting.

- II. MAINTENANCE ITEMS:
- Watering:** Watering of all newly planted materials once per week as weather permits during the entire initial growing season. Following the initial growing season, watering shall be done on an "as needed" basis depending on the frequency of natural rainfall. During the months of July and August and periods of severe drought, all newly planted materials shall be watered thoroughly once every week. Watering shall be done deeply and slowly using an open end hose or watering probe, at low pressure, allowing the water to be absorbed into the soil until thoroughly saturated. The watered area shall include the whole root zone as the tree becomes more established.
 - Fertilizing:** Fertilizing shall be applied only after the soil has been tested to determine its needs. Organic fertilizer should be applied in accordance with the amounts recommended in the soil analysis report. No fertilizing of newly planted trees shall be done within the first growing season after initial planting. Following the first growing season, apply fertilizer as recommended either in late fall or early spring.
 - Supplemental Mulch:** To control undesirable vegetation adjacent to the newly planted materials and to prevent tree roots from drying out, additional mulch shall be placed over the existing mulch field where required. Carefully remove any invasive plants (including the root system) within the mulch fields. Do not damage trees in any way during removal of invasive plants or mulching operations.
 - Pruning:** Remove dead, diseased, dying and broken branches from all plant materials. Pruning shall be done cleanly leaving no ragged ends.

- III. REPLACEMENT OF DEAD OR DYING MATERIALS:
- Replacement:** Any plant materials which are 25% dead or more shall be replaced during the appropriate spring or fall planting seasons in accordance with the methods indicated in the Planting Specifications. A tree shall be considered dead when the main leader has died back.
 - All replacements shall be plants of the same genus, species and size as specified on the plant list.



FOREST CONSERVATION CHART

LAND USE	Institutional	SUBWATERSHED NUMBER	2131106	ON-SITE MD GRID N (1)	500,000	ON SITE MD GRID E (1)	816,000	NET TRACT AREA	17.80	TOTAL SITE DISTURBANCE (AC)	14.74
PRIORITY DISTURBANCE WITHIN TOTAL DISTURBED AREA (AC) (2)	0.39 AC.	% PRIORITY DISTURBANCE (3)	4%	EXISTING FOREST (AC) (4)	0.9 AC.	ON-SITE RETENTION (AC)	0.74	OFF-SITE RETENTION (AC)	0	CLEARED FOREST (AC) (4)	0.16
ON-SITE REFORESTATION (AC)	0	OFF-SITE REFORESTATION (AC)	0	ON-SITE AFFORESTATION (AC)	.67 AC.	OFF-SITE AFFORESTATION	0	OFF-SITE MD GRID N (1)	--	OFF-SITE GRID E (1)	--
TOTAL ACRES IN EASEMENT	1.41 AC.	TOTAL ACRES OF PRIORITY AREA WITHIN TOTAL EASEMENT	1.31 AC	% OF PRIORITY AREA WITHIN TOTAL EASEMENT	93%	AMOUNT OF SURETY POSTED	\$20,830.00	AMOUNT OF FEE-IN-LIEU REQUESTED	\$32,867.60	OFF-SITE SUBWATERSHED NUMBER	--

- (1) THESE 6 DIGIT COORDINATES CAN BE TAKEN FROM ADC'S STREET MAP OF HOWARD COUNTY
(2) PROVIDE THE ACREAGE OF THE TOTAL SITE DISTURBANCE WHICH OCCURS IN PRIORITY AREAS (WETLANDS, WETLAND BUFFERS, STREAM BUFFERS, STEEP SLOPES, FLOODPLAIN)
(3) PROVIDE THE PERCENTAGE OF THE TOTAL SITE DISTURBANCE WHICH OCCURS WITHIN THE PRIORITY AREAS
(4) THESE FIGURES APPLY TO THE ACREAGE OF EXISTING FOREST IN THE NET TRACT AREA AND TO THE ACREAGE OF THAT FOREST WHICH WILL BE CLEARED
(5) FOREST RESTORATION OBLIGATION FOR PHASE III (BA-12-006C) GYMNASIUM ADDITION IS 0.18 ACRES OF AFFORESTATION, REQUESTED TO BE PAID BY FEE-IN-LIEU IN THE AMOUNT OF \$5,880.00.



THIS SEAL FOR A REVISIONS MADE BY SITE RESOURCES, INC.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
DIRECTOR: [Signature] 1/2/12 DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION: [Signature] 12/21/05 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT: [Signature] 1/2/12 DATE

11/8/2012 4 ADDITION OF NEW GYMNASIUM / ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING.
9/28/05 1 REVISED FOREST CONSERVATION FOR OFF-SITE POND ADDITION

OWNER / DEVELOPER
MOST REVEREND WILLIAM H. KEELER
ARCHBISHOP OF BALTIMORE
P. O. BOX 155, SAINT LOUIS CHURCH
ROUTES 108 & 32
CLARKSVILLE, MD 21029
PHONE: 410-531-6040
C/O MONSIGNOR JOSEPH L. LUCA

PROJECT: ST. LOUIS CHURCH IMPROVEMENTS PHASE 1 II & III
NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS
AREA: PARCELS 196, 24 AND 30 TAX MAP 34
5th ELECTION DISTRICT ZONES RR-DEO
HOWARD COUNTY, MARYLAND 21029

TITLE: FOREST CONSERVATION NOTES AND DETAILS
Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

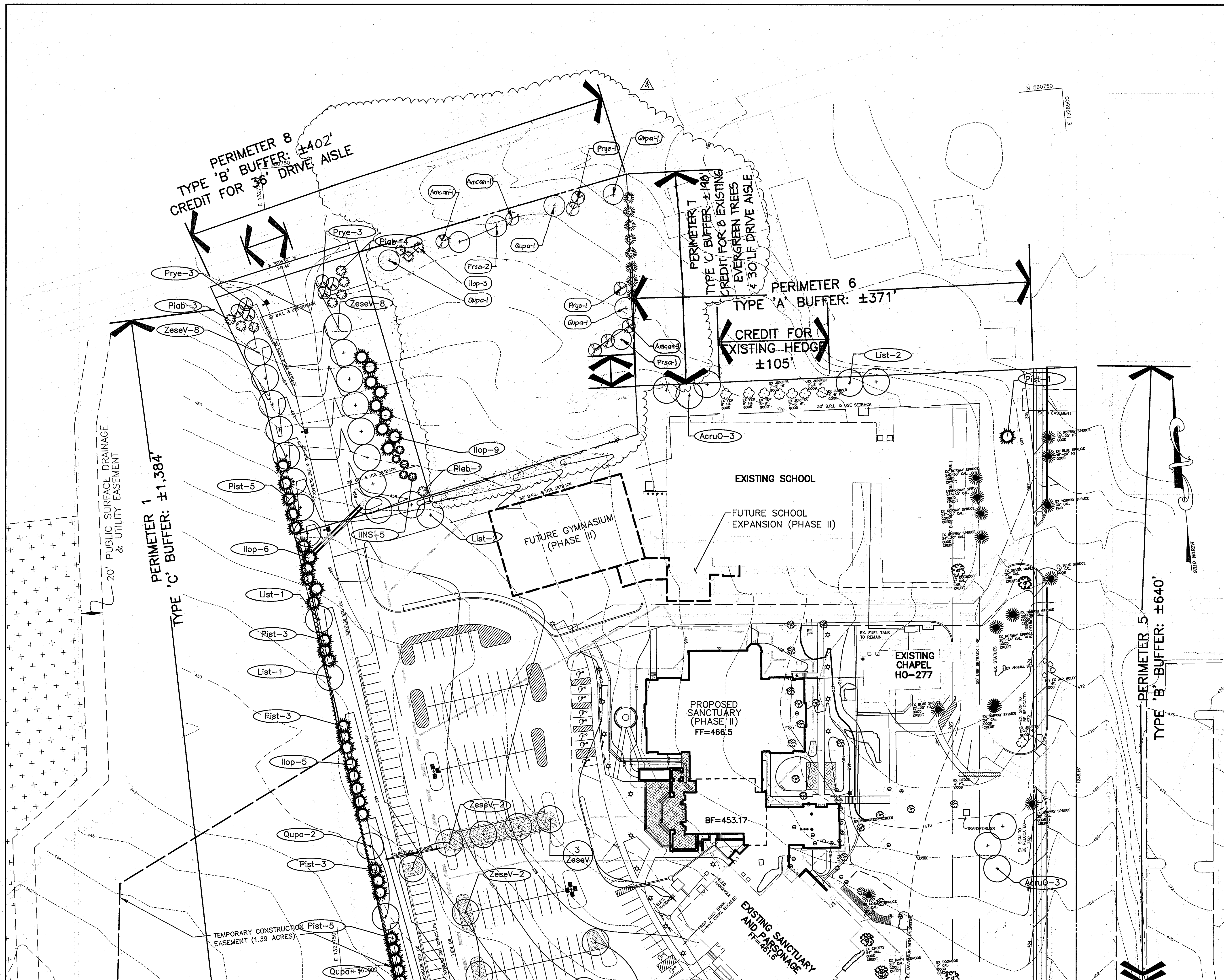
DRAWING FILE: \REVISED SDP\ L202FCP.DWG
DESIGNED BY: PJS
DRAWN BY: M.A.D.
PROJECT NO.: 00370
DATE: DECEMBER 8, 2005
SCALE: AS SHOWN
DRAWING NO. 23 OF 35

REFORESTATION PLANT LISTS

UPLAND PLANT LIST

QUANTITIES	SCIENTIFIC/COMMON NAME	SIZE	ROOT	REMARKS
27	LIRIODENDRON TULIPIFERA / TULIP TREE		WHIPS WITH TUBES	FULL CROWN PLANT 11" O.C. RANDOM PATTERN
26	LIQUIDAMBAR STRYACIFLUA AMERICAN SWEETGUM			
26	ACER RUBRUM / RED MAPLE			
26	QUERCUS ALBA / WHITE OAK			
26	ACER PSEUDOPLATANUS SYCAMORE			
26	QUERCUS COCCINEA SCARLET OAK			
26	QUERCUS ALBA			
26	WHITE OAK			
26	QUERCUS PRINUS CHESTNUT OAK			
26	NYSSA SYLVATICA BLACK GUM			

- NOTES
- RANDOMLY LOCATE GROUPS OF PLANT SPECIES, TAKING CARE NOT TO PLANT IN SUCCESSION MORE THAN 4 OF THE SAME SPECIES.
 - THIS DETAIL PROVIDES A HYPOTHETICAL GRAPHIC DEPICTION OF A PROPOSED LAYOUT FOR NINE DIFFERENT TREE SPECIES (A-F). IT IS NOT MEANT TO BE FOLLOWED EXACTLY. THE PURPOSE IS TO ACHIEVE THE APPEARANCE OF RANDOM SPACING. SEE PLANT LIST FOR ACTUAL NUMBER OF PLANT SPECIES.
 - SEE PLANT LIST FOR ON-CENTER SPACING REQUIREMENTS.
 - MINIMUM PLANT DENSITY REQUIREMENT IS 950 PLANTS PER ACRE.



LEGEND

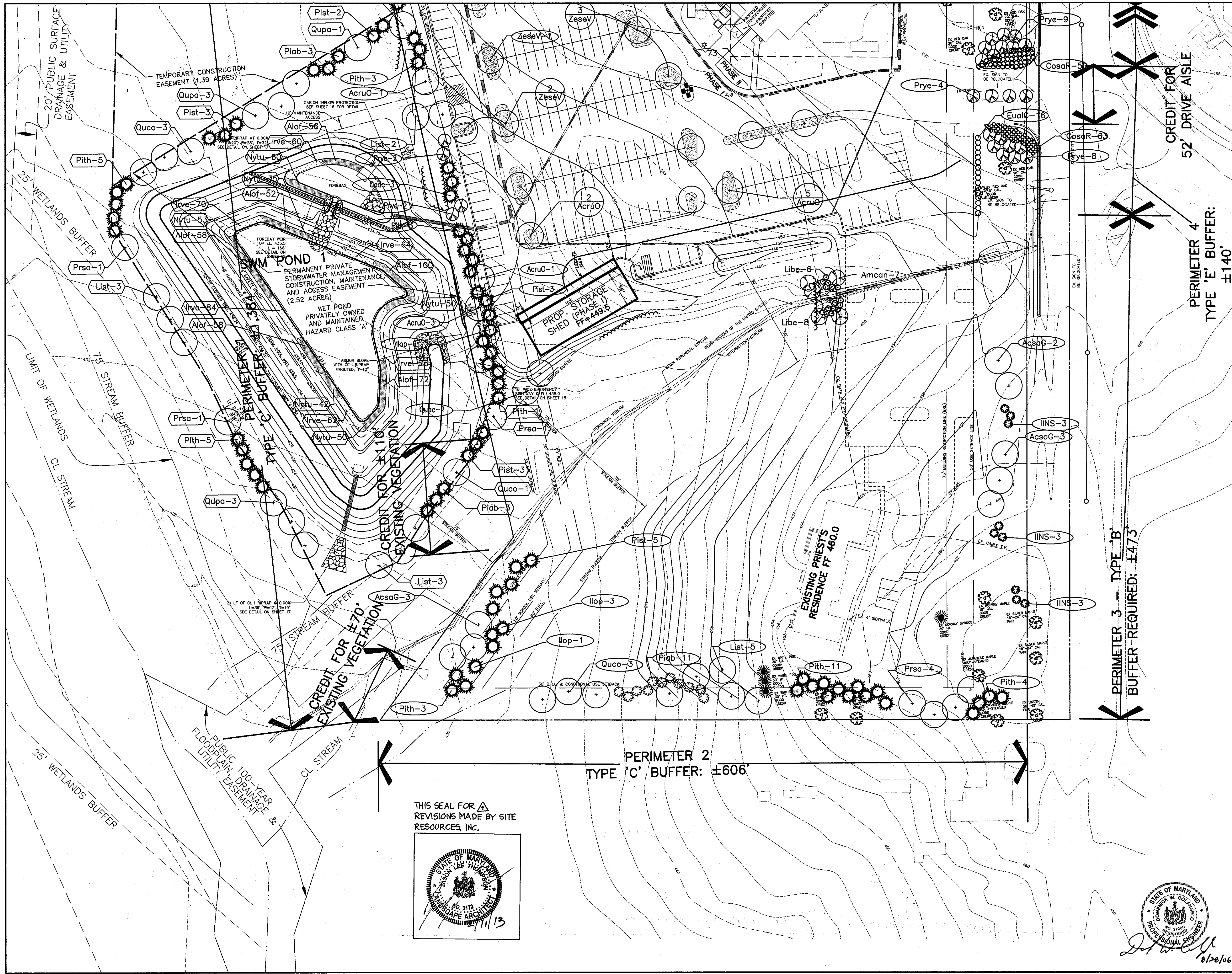
EX. TREELINE	
PROP. TREELINE	
PROPERTY LINE	
EXISTING PERENNIAL STREAM	
EXISTING CONTOURS	
PROPOSED CONTOURS	
PERIMETER LANDSCAPE PLANTS	
BIORETENTION PLANTS	
PLANTS	
SUPPLEMENTAL PLANTS FOR STREAM BUFFER NP - 01-64	
LANDSCAPE ISLAND CREDITED AREA	
EXISTING PLANTS	
PROPOSED PLANTS	
FOREST CONSERVATION AREA	
TREE PROTECTION FENCE	

THIS SEAL FOR REVISIONS MADE BY SITE RESOURCES, INC.



SEE SHEETS 32 & 33 FOR REVISED BUILDING AND GRADING INFORMATION.

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
DIRECTOR	DATE 1/2/06
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE 12/21/05
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE 1/3/06
11/8/2012 4	ADDITION OF NEW GYMNASIUM / ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING.
9/28/05 2	REMOVED SCHEDULES, NOTES, DETAILS, AND UNDERGROUND SWM FACILITIES
9/3/04 1	REVISED BUILDING AND PARKING LAYOUT
DATE NO.	REVISION
OWNER / DEVELOPER	
MOST REVEREND WILLIAM H. KEELER ARCHBISHOP OF BALTIMORE P. O. BOX 155, SAINT LOUIS CHURCH ROUTES 108 & 32 CLARKSVILLE, MD 21029 PHONE: 410-531-6040 C/O MONSIGNOR JOSEPH L. LUCA	
PROJECT	
ST. LOUIS CHURCH IMPROVEMENTS PHASE 1 (I, II & III) NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS 12500 MD ROUTE 108	
AREA	
PARCELS 196, 24, 30, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100 5th ELECTION DISTRICT ZONED RR-DEO HOWARD COUNTY, MARYLAND 21029	
TITLE	
REVISED LANDSCAPE PLAN	
Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045, T 410.997.8900 F 410.997.9282	
12/10/05 DATE	DRAWING FILE: REVISED SDP
DESIGNED BY :	
DRAWN BY :	
PROJECT NO : 00370	
DATE: DECEMBER 8, 2005	
SCALE : 1" = 40'	
DRAWING NO. 25 OF 35	
SCOTT R. WOLFORD #797	

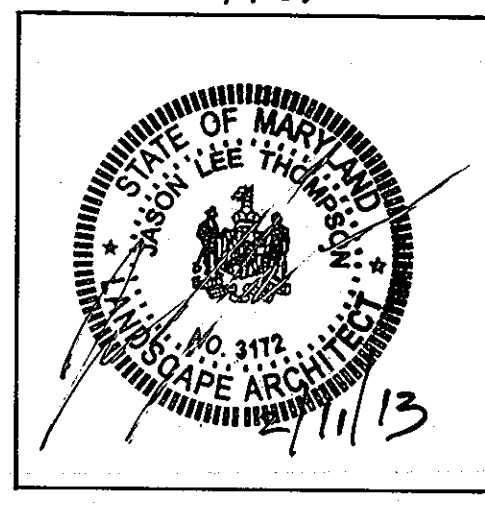


LEGEND

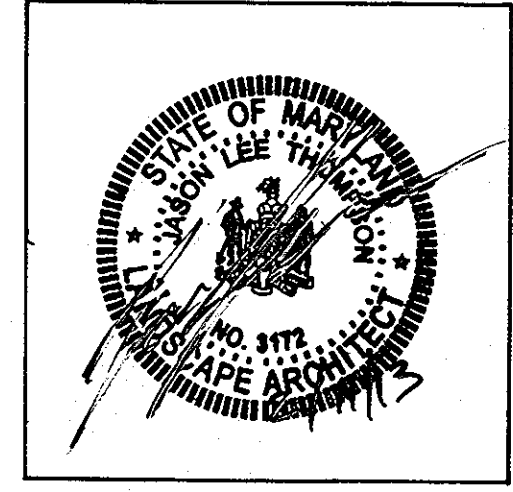
EX. TREELINE	
PROP. TREELINE	
PROPERTY LINE	
EXISTING PERENNIAL STREAM	
EXISTING CONTOURS	
PROPOSED CONTOURS	
PERIMETER LANDSCAPE PLANTS	
BIORETENTION PLANTS	
STORMWATER MANAGEMENT PLANTS	
PLANTS	
SUPPLEMENTAL PLANTS FOR STREAM BUFFER MP - 01-64	
LANDSCAPE ISLAND CREDITED AREA	
EXISTING PLANTS	
PROPOSED PLANTS	
FOREST CONSERVATION AREA	
TREE PROTECTION FENCE	

1/18/2012	ADDITION OF NEW GYMNASIUM / ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDINGS
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
DIRECTOR	DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
6/20/06	3 ADDED LEAN-TO AND REVISED PERKINS
9/28/05	2 ADDED LANDSCAPING FOR WET POND & REV. LANDSCAPING FOR NEW PARKING LAYOUT
9/8/04	1 REVISED PARKING LAYOUT
DATE NO.	REVISION
OWNER / DEVELOPER	
MOST REVEREND WILLIAM H. KEELER ARCHBISHOP OF BALTIMORE P. O. BOX 155, SAINT LOUIS CHURCH ROUTES 108 & 32 CLARKSVILLE, MD 21029 PHONE: 410-531-6040 C/O MONSIGNOR JOSEPH L. LUCA	
PROJECT	
ST. LOUIS CHURCH IMPROVEMENTS PHASE I (I & II)	
NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS 27500 MD ROUTE 108	
AREA	
PARCELS 196, 291 AND 300 TAX MAP 34 5TH ELECTRIC DISTRICT ZONED RR-DEO CLARKSVILLE HOWARD COUNTY, MARYLAND 21029	
TITLE	
REVISED LANDSCAPE PLAN	
Patton Harris Rust & Associates, p.c. Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
DATE	DRAWING FILE: REVISED SDP L2011LND.DWG
DESIGNED BY:	DRAWN BY:
PROJECT NO: 00370	DATE: DECEMBER 8, 2005
SCALE: 1" = 40'	DRAWING NO. 26 OF 35
SCOTT R. WOLFORD #797	

THIS SEAL FOR REVISIONS MADE BY SITE RESOURCES, INC.



THIS SEAL FOR REVISIONS MADE BY SITE RESOURCES, INC.



PROPERTY OF CLARKSVILLE MANOR LOT 2 PLAT NO. 15546 ZONE: B2

TEN OAKS ROAD HOWARD COUNTY PUBLIC ROAD MAJOR COLLECTOR (ULTIMATE 60' R/W)

N/F PROPERTY OF IAN AND SHIRLEY WYTHE L1526 F.404 ZONE: B2

ST LOUIS ROMAN CATHOLIC CONGREGATION INC. L646 F.669 PARCEL 30 ZONE: POK

JAMES M. EARLY & JEREMIAH G. EARLY T.M. 34 P. 32 L.766 F.594 ZONE: B2

JAMES A. RAYMO T.M. 34 P. 34 L.476 F.722 PARCEL 1 ZONE: B2

ST. LOUIS ROMAN CATHOLIC CONGREGATION INC. L1521 F. 86 PARCEL 29 ZONED POK

DONNA R. CLELLAND & BARBARA J. PALMER T.M. 34 P. 471 L.793 F.471 ZONE: RR

TEMPORARY CONSTRUCTION EASEMENT (1.39 ACRES)

LEGEND	
TREES	
TREELINE	
PROPERTY LINE	
PERMANENT STREAM	
SLOPES: 15% - 25%	
SLOPES: 25% & GREATER	
EX. CONTOUR LINES	
PROP. CONTOUR LINES	
SPECIMEN TREES (≥ 30" DIAM.)	
SIGNS (PLACED AT 50'-100' INTERVALS)	
FOREST CONSERVATION AREA	
TREE PROTECTION FENCE	
LIMIT OF DISTURBANCE	

- FOREST CONSERVATION PROGRAM**
- OBJECTIVE: IT IS THE OBJECTIVE OF THE FOREST RETENTION PORTION OF THE PROPOSED ST. LOUIS CHURCH EXPANSION TO RETAIN ENVIRONMENTAL INTEGRITY BY PRESERVING EXISTING WOODED AREAS AND REFORESTING ENVIRONMENTALLY SENSITIVE AREAS ADJACENT TO WOODED AREAS.
 - PRESERVATION: FOREST PRESERVATION AREAS SHALL BE PERMANENTLY PROTECTED BY FOREST CONSERVATION EASEMENTS.
 - REFORESTATION: REFORESTATION AREAS SHALL BE CREATED BY THE PLANTING OF NATIVE TREE SPECIES ADJACENT TO THE STREAM IN THE SOUTHWEST CORNER OF THE SITE. THE REFORESTATION AREAS SHALL BE PERMANENTLY PROTECTED BY FOREST CONSERVATION EASEMENTS.
 - POST CONSTRUCTION MANAGEMENT PRACTICE: A TWO (2) YEAR POST-CONSTRUCTION AND MANAGEMENT PROGRAM TO ENSURE PROBABILITY OF A HIGH SURVIVAL RATE INCLUDES THE FOLLOWING:
 - MAINTENANCE OF SIGNS, FENCES AND TREE PROTECTION DEVICES TO PREVENT UNWARRANTED INTRUSIONS AND DAMAGE.
 - CAREFUL REMOVAL OF ALL TEMPORARY STRUCTURES AFTER CONSTRUCTION.
 - ROUTINE INSPECTIONS OF FOREST CONSERVATION EASEMENTS.

- GENERAL NOTES:**
- THE MAJORITY OF THE PLAN HAS BEEN PREPARED USING FIELD SURVEYED TOPOGRAPHY. PORTIONS OF THE EXISTING TREELINE AND SPECIMEN TREES WERE FIELD APPROXIMATED.
 - NO CRITICAL HABITATS OF RARE, THREATENED OR ENDANGERED SPECIES WERE OBSERVED.
 - NO TREES, SHRUBS, OR PLANTS IDENTIFIED AS RARE, THREATENED OR ENDANGERED SPECIES WERE OBSERVED.
 - STRUCTURES ON THE SITE EXIST AS SHOWN. ACCORDING TO THE HOWARD COUNTY HISTORIC AND CEMETERY SITE MAP, ONE HISTORIC STRUCTURE EXISTS ON THE SITE.
 - THIS SITE CONTAINS ONE HYDRIC SOIL, ELKTON (EKB2).
 - THE FSD IS BASED ON A FIELD INVESTIGATION BY PETER J. STONE, RLA OF PATTON HARRIS RUST & ASSOCIATES, PC ON MARCH 21, 2002.
 - ONE SPECIMEN TREE IS PRESENT ON THE SITE AS SHOWN ON THE PLAN.
 - JUSTIFICATION FOR FOREST REMOVAL: IN ORDER TO PROCEED WITH THE PROPOSED CHURCH EXPANSION AND PARKING LOTS, SMALL PORTIONS OF THE FORESTED AREA NEED TO BE CLEARED.
 - THE HOWARD COUNTY FOREST CONSERVATION MANUAL SUPERSEDES ANY DISCREPANCIES BETWEEN THE MANUAL AND THESE PLANS.
 - THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION.
 - THE TOTAL FOREST CONSERVATION OBLIGATION AMOUNT IS 2.65 ACRES. THE FOREST CONSERVATION OBLIGATION FOR THE PROPOSED SITE DEVELOPMENT HAS BEEN MET BY PLACING 0.14 AC OF ON-SITE FOREST IN FOREST RETENTION EASEMENTS AND PROVIDING 0.66 AC OF REFORESTATION (AFFORESTATION) ON-SITE. SURETY IN THE AMOUNT OF \$ 14,381.50 (28,763 SF x \$0.50) HAS BEEN POSTED FOR THE REFORESTATION (AFFORESTATION) EASEMENTS AND SURETY IN THE AMOUNT OF \$6,448.40 (32,252 SF x \$0.20) HAS BEEN POSTED FOR THE FOREST RETENTION, FOR A TOTAL SURETY IN THE AMOUNT OF \$20,830.00. ADDITIONAL FOREST CONSERVATION OBLIGATION (1.24 AC) WILL BE MET BY PAYMENT OF A FEE-IN-LIEU IN THE AMOUNT OF \$ 21,002.00 (34,014 SF x \$0.50).
 - THE ON-SITE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE. NO CLEARING, GRADING, OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
 - BEARINGS AND DISTANCES FOR THE FOREST CONSERVATION EASEMENT ARE PROVIDED ON A PLAT AS PLAT NO. 16467 DATED JANUARY 1, 2004.

EXISTING SCHOOL
FUTURE SCHOOL EXPANSION (PHASE II)
FUTURE GYMNASIUM (PHASE III)

EXISTING CHAPEL HO-277
PROPOSED SANCTUARY (PHASE II) FF=466.5

EXISTING SANCTUARY AND PARSONAGE FF=465.5

WAKE FOREST ROAD HOWARD COUNTY PUBLIC ROAD LOCAL ROAD

MD ROUTE 108
CLARKSVILLE PIKE
MARYLAND STATE HIGHWAY
MAJOR COLLECTOR
R/W WIDTH VARIES

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DIRECTOR *[Signature]* DATE 1/31/05

CHIEF, DEVELOPMENT ENGINEERING DIVISION *[Signature]* DATE 12/28/05

CHIEF, DIVISION OF LAND DEVELOPMENT *[Signature]* DATE 1/3/05

DATE	NO.	REVISION
11/8/2012	4	ADDITION OF NEW GYMNASIUM / ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING
9/28/05	1	REMOVED DETAILS, CHARTS, AND UNDERGROUND SWM FACILITIES

OWNER / DEVELOPER
MOST REVEREND WILLIAM H. KEELER
ARCHBISHOP OF BALTIMORE
P. O. BOX 155, SAINT LOUIS CHURCH
ROUTES 108 & 32
CLARKSVILLE, MD 21029
PHONE: 410-531-6040
C/O MONSIGNOR JOSEPH L. LUCA

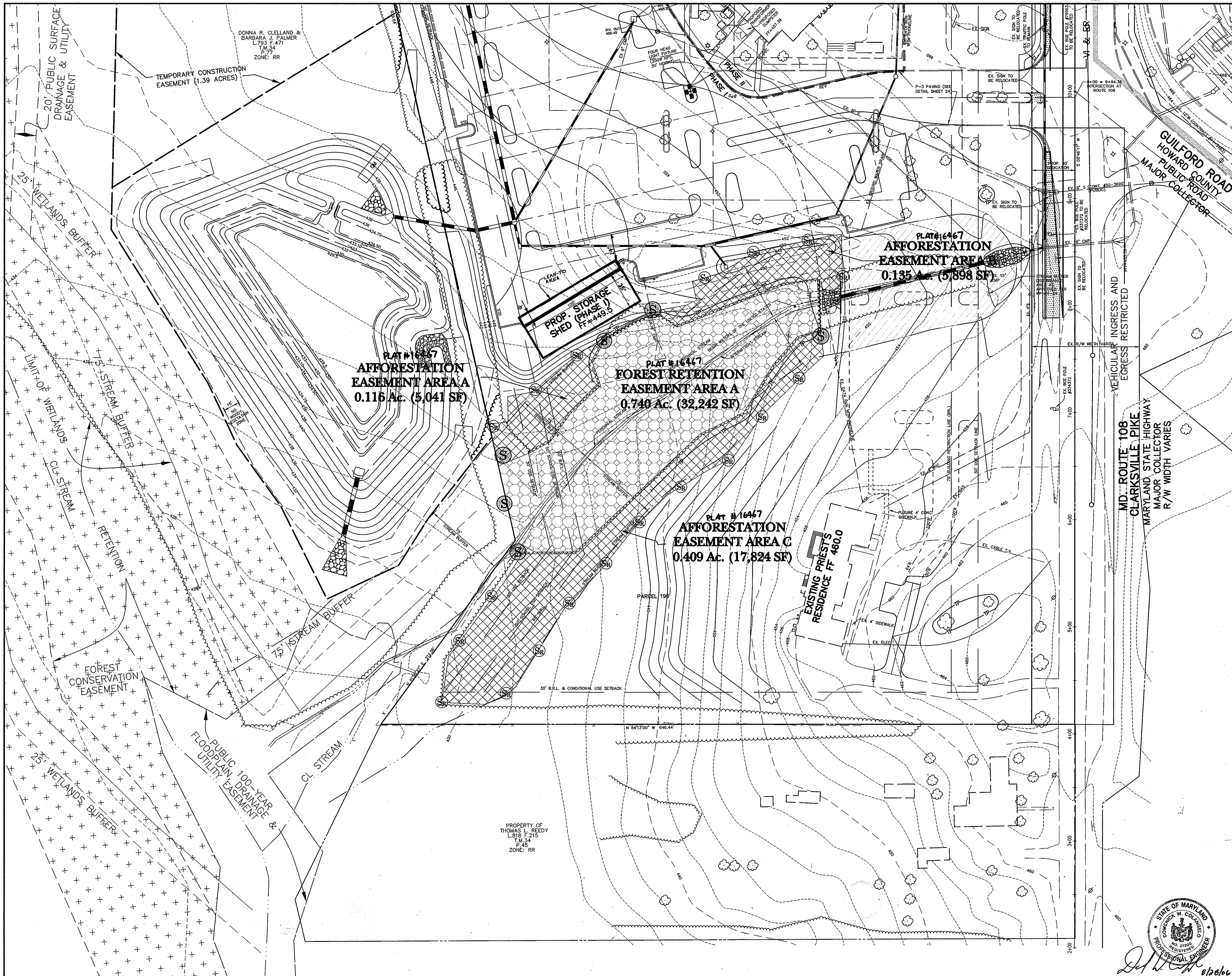
PROJECT
ST. LOUIS CHURCH IMPROVEMENTS PHASE 1 II&III
NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS
12500 MD ROUTE 108

AREA
PARCELS 196, 24 AND 30 TAX MAP 34
5TH ELECTION DISTRICT ZONED RR-DEO
HOWARD COUNTY, MARYLAND 21029

TITLE
REVISED FOREST CONSERVATION PLAN

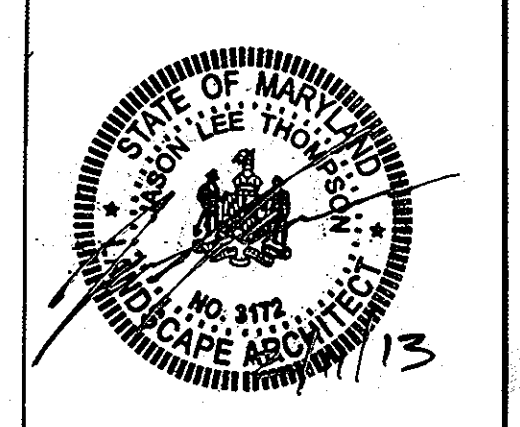
Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

DATE 12/8/05
DRAWING FILE: REVISED SDP_L200FCP.DWG
DESIGNED BY: A.C.R.
DRAWN BY: M.A.D.
PROJECT NO: 00370
DATE: DECEMBER 8, 2005
SCALE: 1" = 40'
DRAWING NO. 27 OF 35

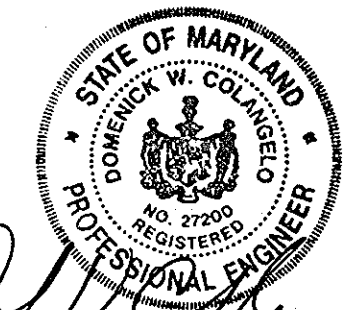


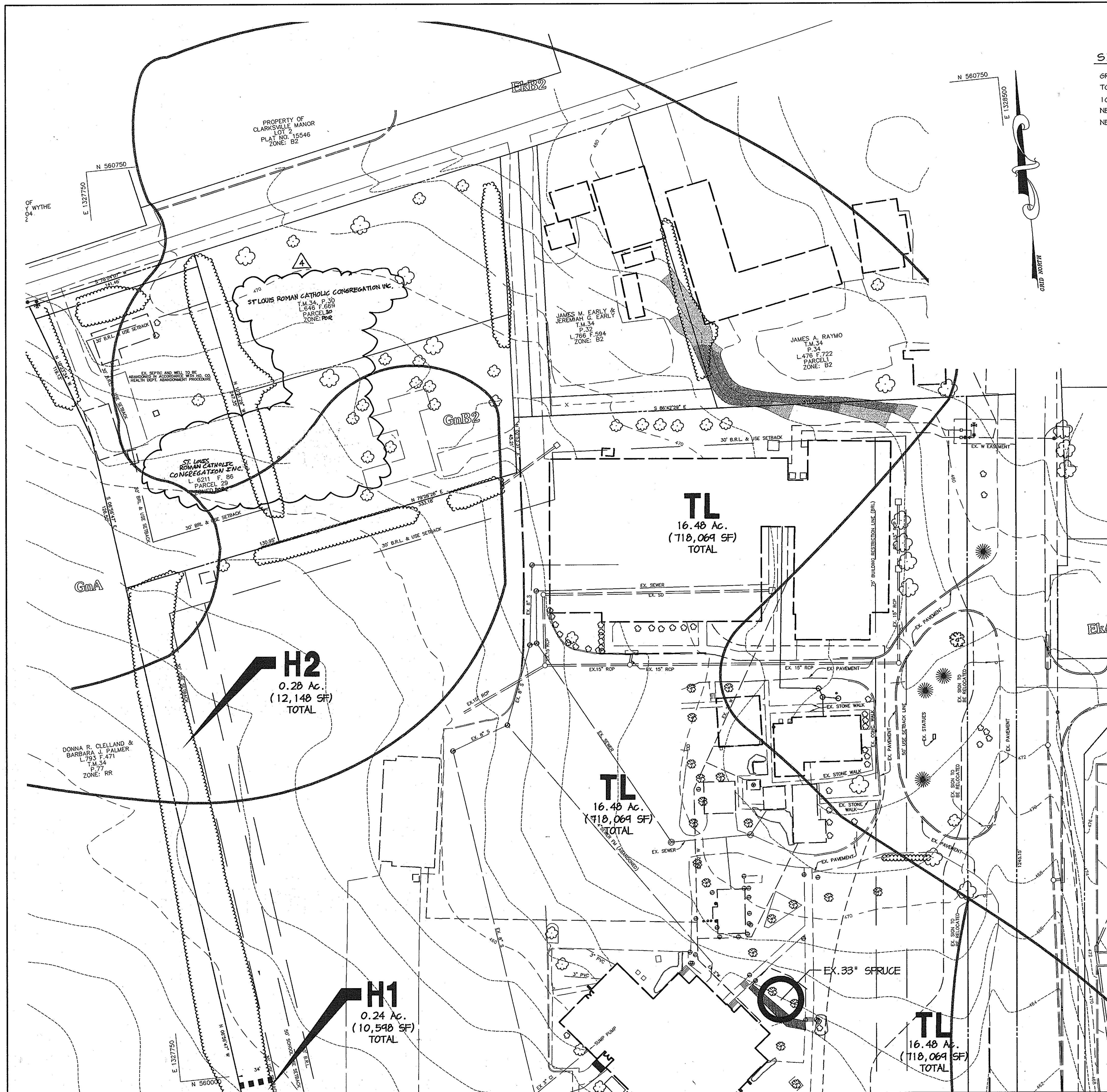
LEGEND	
TREES	
TREELINE	
PROPERTY LINE	
PERENNIAL STREAM	
SLOPES: 15% - 25%	
SLOPES: 25% & GREATER	
EX. CONTOUR LINES	
PROP. CONTOUR LINES	
SPECIMEN TREES (≥ 30" DIAM.)	
SIGNS (PLACED AT 50'-100' INTERVALS)	
FOREST CONSERVATION AREA	
TREE PROTECTION FENCE	
LIMIT OF DISTURBANCE	

THIS SEAL FOR REVISIONS MADE BY SITE RESOURCES, INC.



APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>Joseph J. ...</i>	1/5/06
DIRECTOR	DATE
<i>...</i>	12/28/05
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>...</i>	1/5/06
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
1/8/2012 4	ADDITION OF NEW GYMNASIUM / ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING
6/20/06 2	ADDED LEAN-TO AND REVERSED PARKING
9/28/05 1	REMOVED NOTES, DETAILS, AND UNDERGROUND SWM FACILITIES, ADDED OFFSITE POND
DATE NO.	REVISION
OWNER / DEVELOPER	
MOST REVEREND WILLIAM H. KEELER ARCHBISHOP OF BALTIMORE P. O. BOX 155, SAINT LOUIS CHURCH ROUTES 108 & 32 CLARKSVILLE, MD 21029 PHONE: 410-531-6040 C/O MONSIGNOR JOSEPH L. LUCA	
PROJECT	
ST. LOUIS CHURCH IMPROVEMENTS PHASE 1 II & III NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS 12500 MD ROUTE 108	
AREA	
PARCELS 196, 24 AND 30 TAX MAP 34 5th ELECTION DISTRICT, ZONED RR-DEO CLARKSVILLE HOWARD COUNTY, MARYLAND 21029	
TITLE	
FOREST CONSERVATION PLAN	
Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
12-8-05	DATE
REVISED SDP / L201FCP.DWG	DRAWING FILE:
A.C.R.	DESIGNED BY:
M.A.D.	DRAWN BY:
00370	PROJECT NO.:
DECEMBER 8, 2005	DATE:
1" = 40'	SCALE:
28 OF 35	DRAWING NO.:





SITE CHARACTERISTICS:

GROSS SITE AREA	17.91 ACRES
TOTAL FORESTED AREA	0.90 ACRES
100 YEAR FLOODPLAIN AREA	0.00 ACRES
NET TRACT AREA	17.91 ACRES
NET TRACT AREA FOREST	0.90 ACRES

PLANT COMMUNITY	ACREAGE
F1	0.90 Ac.
H1	0.24 Ac.
H2	0.28 Ac.
TOTAL	1.42 Ac.

GENERAL NOTES:

1. THIS FOREST STAND DELINEATION (FSD) HAS BEEN PREPARED IN ACCORDANCE WITH HOWARD COUNTY REGULATIONS.
2. THIS FSD IS BASED ON A FIELD INVESTIGATION BY PETER J. STONE, RLA OF PATTON HARRIS RUST & ASSOCIATES, PC ON MARCH 21, 2002.
3. TREELINES SHOWN ARE BASED ON AERIAL SURVEY AND FIELD APPROXIMATION.
4. THIS SITE CONTAINS ONE HYDRIC SOIL, ELKTON (EkB2).
5. NO CRITICAL HABITATS OF RARE, THREATENED OR ENDANGERED SPECIES WERE OBSERVED.
6. NO TREES, SHRUBS, OR PLANTS IDENTIFIED AS RARE, THREATENED OR ENDANGERED SPECIES WERE OBSERVED.
7. STRUCTURES ON THE SITE EXIST AS SHOWN. ACCORDING TO THE HOWARD COUNTY HISTORIC AND CEMETERY SITE MAP, ONE HISTORIC CHURCH EXISTS ON THE SITE.
8. THIS SITE CONTAINS NO WETLANDS OR 100-YEAR FLOODPLAIN. STREAMS LOCATIONS ARE AS SHOWN ON THIS PLAN.
9. A SPECIMEN TREE IS PRESENT ON THE SITE AS SHOWN ON THE PLAN.

THIS SEAL FOR A REVISIONS MADE BY SITE RESOURCES, INC.



APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
DIRECTOR	<i>Mark A. Wright</i> 5/14/12 DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION	<i>John Deane</i> 1/20/12 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT	<i>C. Williams</i> 5/10/04 DATE

1/8/2012	4	ADDITION OF NEW GYMNASIUM / ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING
DATE NO.		REVISION

OWNER / DEVELOPER
 MOST REVEREND WILLIAM H. KEELER
 ARCHBISHOP OF BALTIMORE
 P. O. BOX 155, SAINT LOUIS CHURCH
 ROUTES 108 & 32
 CLARKSVILLE, MD 21029
 PHONE: 410-531-6040
 C/O MONSIGNOR JOSEPH L. LUCA

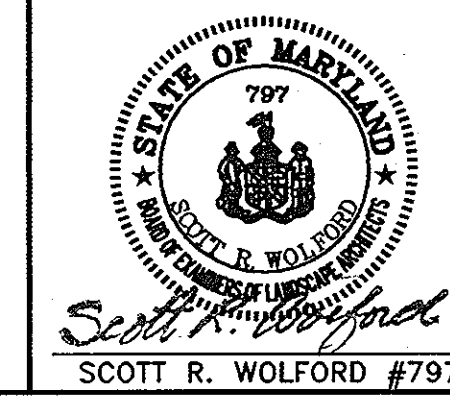
PROJECT
ST. LOUIS CHURCH IMPROVEMENTS PHASE 1 II & III
 NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS
 12500 MD ROUTE 108

AREA
 PARCELS 196, 24 AND 30 TAX MAP 34
 5th ELECTION DISTRICT ZONED RR-DEO
 CLARKSVILLE
 HOWARD COUNTY, MARYLAND 21029

TITLE
FOREST STAND DELINEATION

Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

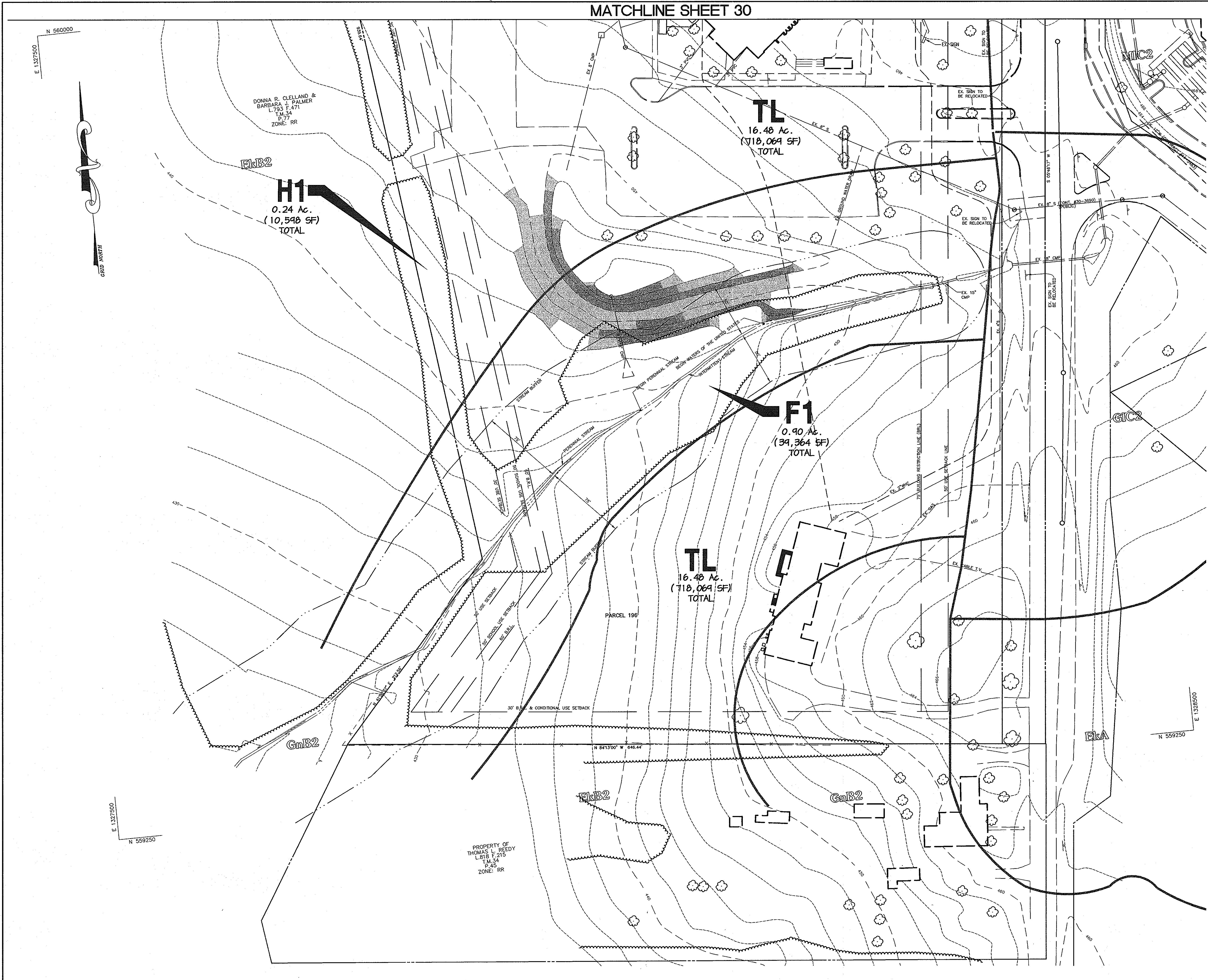
12.23.03	DATE	DRAWING FILE: L200FSD.DWG
	DESIGNED BY: PJS	
	DRAWN BY: GTH	
	PROJECT NO: 00370	
	DATE: JUNE 9, 2003	
	SCALE: 1" = 40'	
	DRAWING NO. 29 OF 35	



LEGEND	
TREES	
TREELINE	
PROPERTY LINE	
PERENNIAL STREAM	
SOIL DIVISION LINE	
SOIL TYPE	EkB2
SLOPES: 15%-25%	
SLOPES: 25% & GREATER	
CONTOUR LINES	
PLANT COMMUNITY DIVISION LINE	
PLANT COMMUNITY TYPE	H1
SPECIMEN TREES (2" 30" DIAM.)	

MATCHLINE SHEET 31

MATCHLINE SHEET 30



LEGEND	
TREES	
TREELINE	
PROPERTY LINE	
PERENNIAL STREAM	
SOIL DIVISION LINE	
SOIL TYPE	
SLOPES: 15% - 25%	
SLOPES: 25% & GREATER	
CONTOUR LINES	
PLANT COMMUNITY DIVISION LINE	
PLANT COMMUNITY TYPE	
SPECIMEN TREES (2 50" DIAM.)	

THIS SEAL FOR Δ REVISIONS MADE BY SITE RESOURCES, INC.



APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>Frank A. Weger</i>	5/12/11
DIRECTOR	DATE
<i>Michael D. Williams</i>	1/20/11
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>John Smith</i>	5/12/11
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
11/6/2012	4
DATE	NO.
ADDITION OF NEW GYMNASIUM / ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING	
DATE	NO.
REVISION	

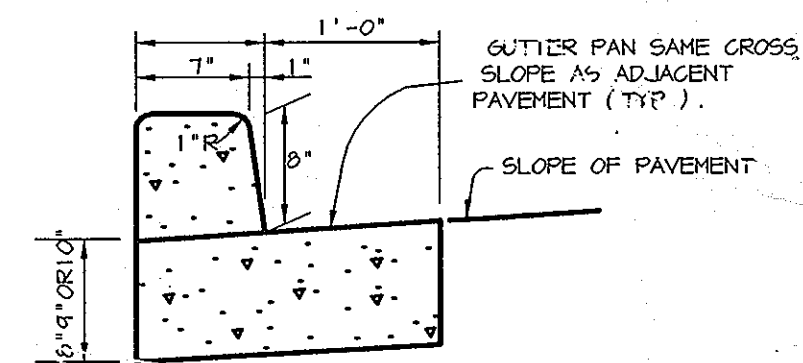
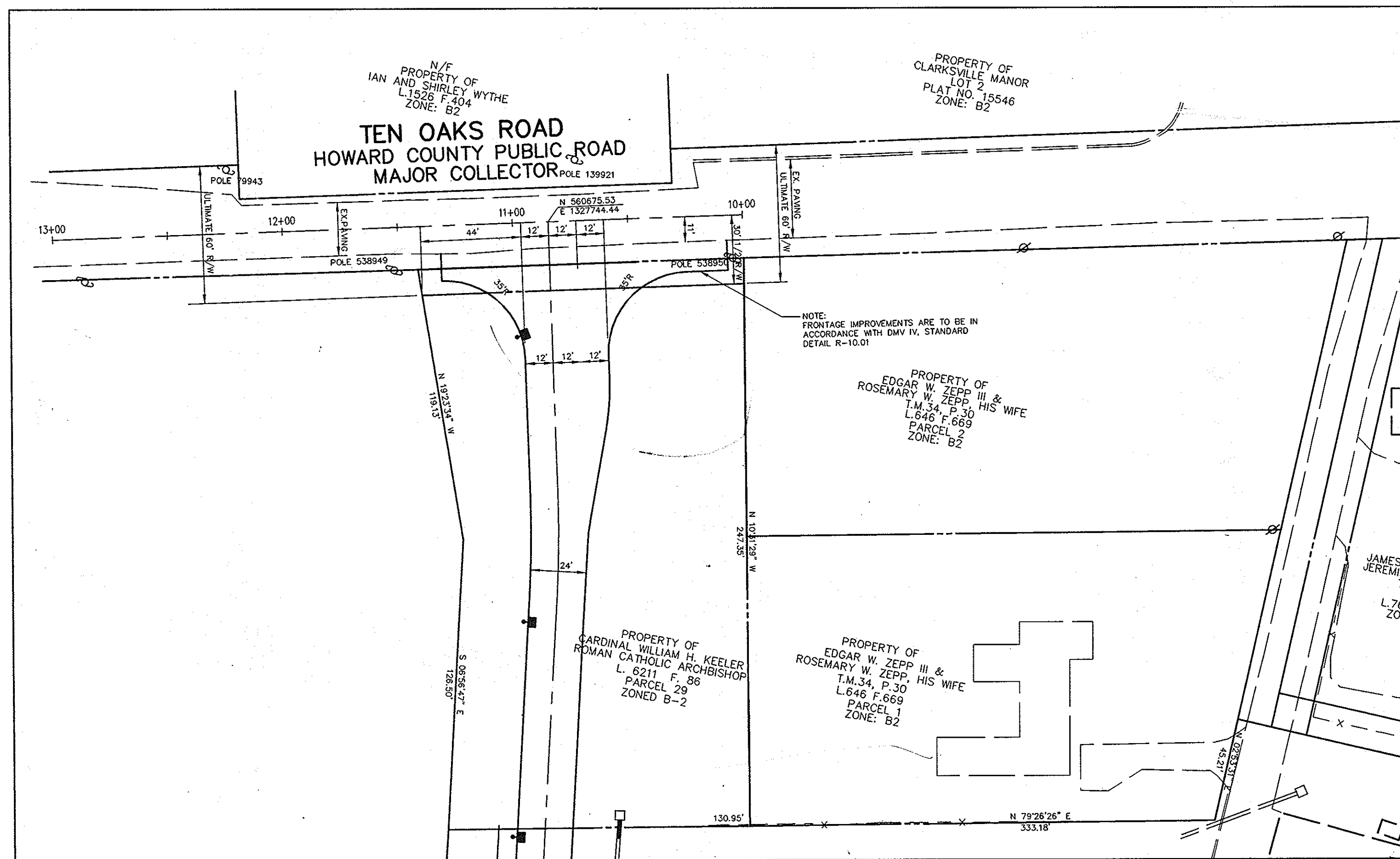
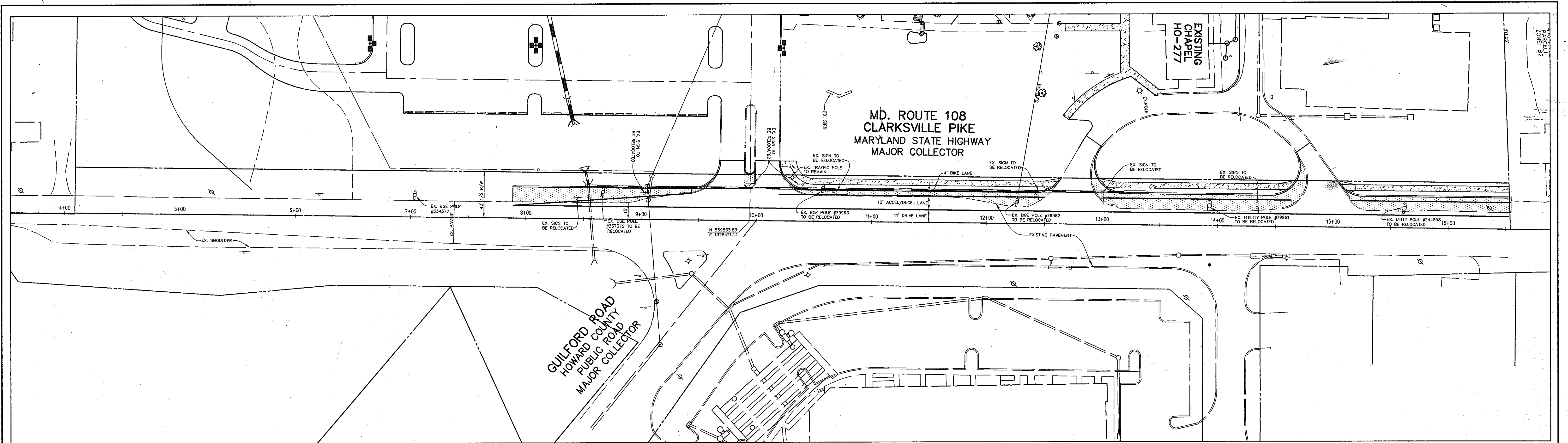
OWNER / DEVELOPER
 MOST REVEREND WILLIAM H. KEELER
 ARCHBISHOP OF BALTIMORE
 P. O. BOX 155, SAINT LOUIS CHURCH
 ROUTES 108 & 32
 CLARKSVILLE, MD 21029
 PHONE: 410-531-6040
 C/O MONSIGNOR JOSEPH L. LUCA

PROJECT
ST. LOUIS CHURCH IMPROVEMENTS PHASE 1, II & III
 NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS
 AREA
 PARCELS 196, 29 AND 30 TAX MAP 34
 5th ELECTION DISTRICT ZONED RR-DEO
 CLARKSVILLE
 HOWARD COUNTY, MARYLAND 21029

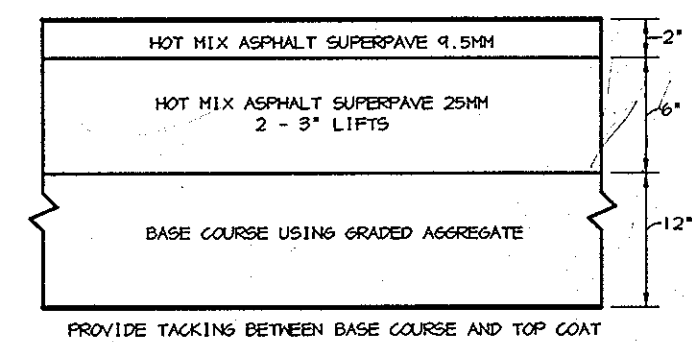
TITLE
FOREST STAND DELINEATION

Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

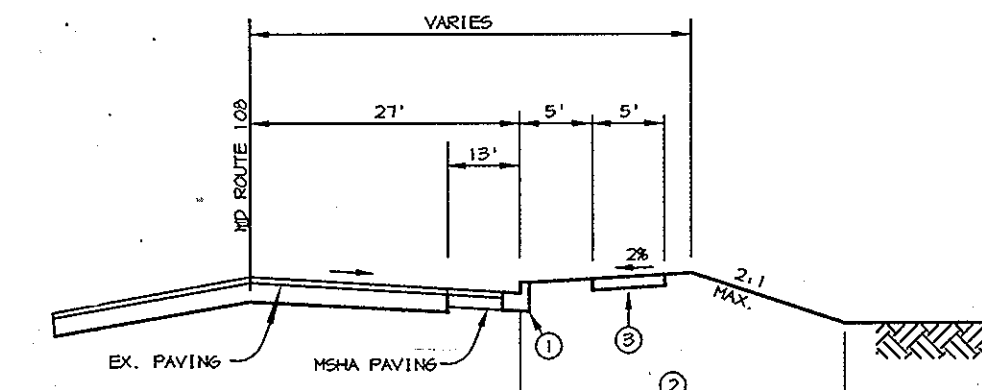
12.23.12	DATE
	DRAWING FILE: L201FSD.DWG
<i>Scott R. Wolford</i>	DESIGNED BY : PJS
SCOTT R. WOLFORD #797	DRAWN BY: GTH
	PROJECT NO : 00370
	DATE : JUNE 9, 2003
	SCALE : 1" = 40'
	DRAWING NO. 30 OF 35



M.S.H.A. TYPE 'A' CURB AND GUTTER
NO SCALE



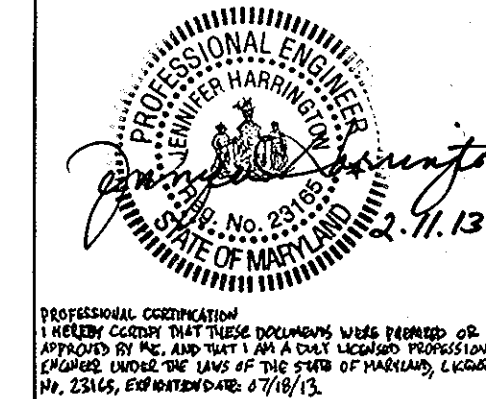
M.S.H.A. PAVING SECTION
NO SCALE



- ① TYPE OF CURB (MSHA TYPE 'A' CURB & GUTTER) SEE DETAIL THIS SHEET.
- ② INDICATES 2\"/>

TYPICAL ROAD WIDENING SECTION
NO SCALE

THIS SEAL FOR REVISIONS MADE BY SITE RESOURCES, INC.



APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>March J. Wright</i>	5/17/14
DIRECTOR	DATE
<i>Michael J. ...</i>	1/20/14
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>Christopher J. Reid</i>	5/14/14
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE

11/8/2012	4	ADDITION OF NEW GYMNASIUM / ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING.
DATE	NO.	REVISION

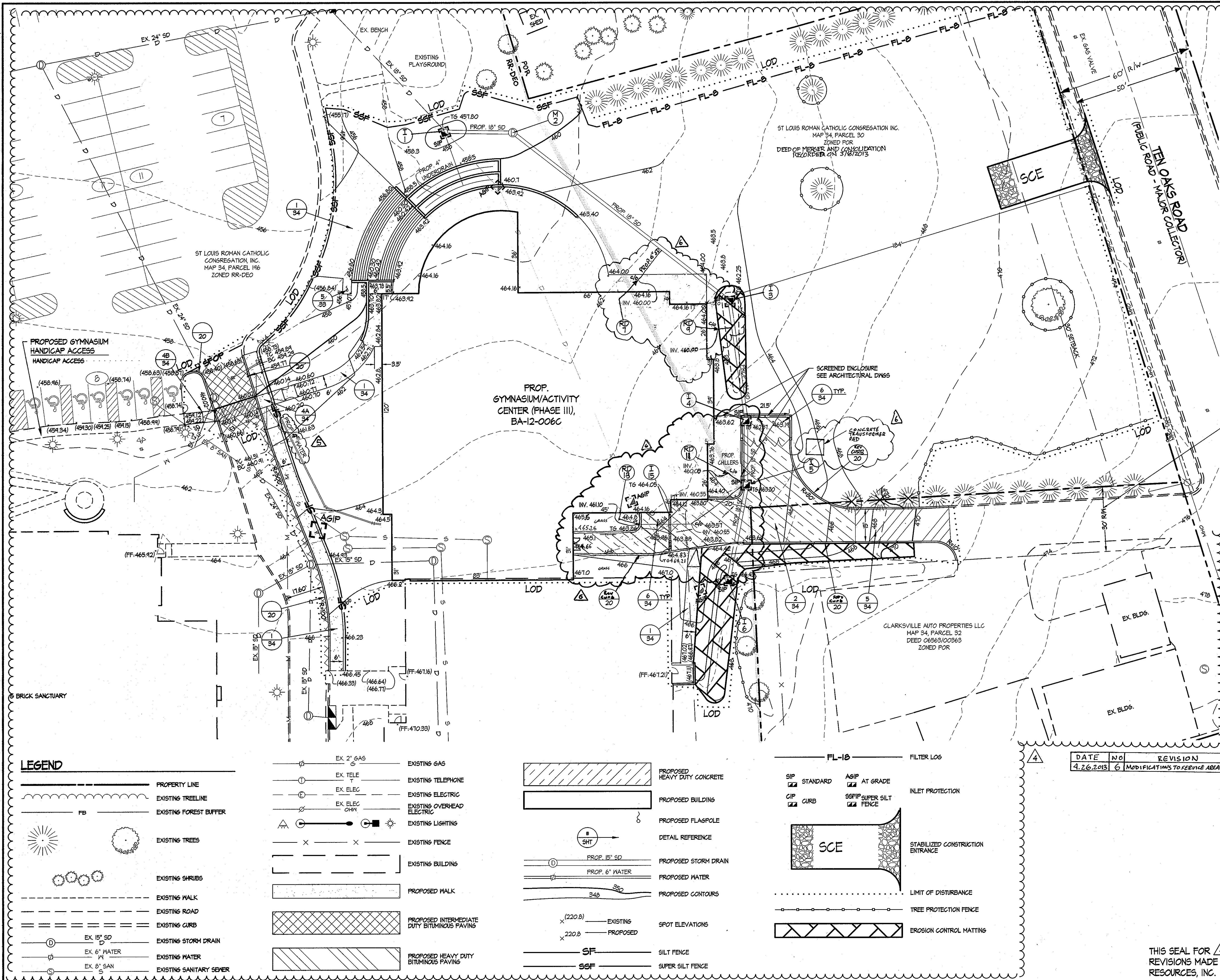
OWNER / DEVELOPER	MOST REVEREND WILLIAM H. KEELER ARCHBISHOP OF BALTIMORE P. O. BOX 155, SAINT LOUIS CHURCH ROUTES 108 & 32 CLARKSVILLE, MD 21029 PHONE: 410-531-6040 C/O MONSIGNOR JOSEPH L. LUCA
PROJECT	ST. LOUIS CHURCH IMPROVEMENTS PHASE 1 (I&II) NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS 12300 MD ROUTE 108
AREA	PARCELS 196, 24 AND 30 TAX-MAP 34 5th ELECTION DISTRICT ZONED RR-DEO CLARKSVILLE HOWARD COUNTY, MARYLAND 21029

ROAD WIDENING PLAN

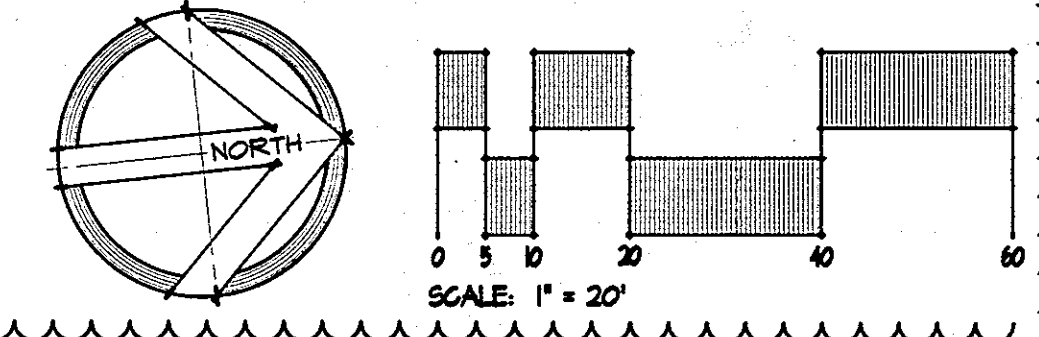
Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
PHRA
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

12.23.03	DRAWING FILE: RD1.DWG
DATE	DESIGNED BY : J.W.C.
	DRAWN BY: M.A.D.
	PROJECT NO : 00370
	DATE : JUNE 9, 2003
	SCALE : 1" = 40'
CHRISTOPHER J. REID #11949	DRAWING NO. 31 OF 35

REVISED SDP-03-64



- ### SEQUENCE OF CONSTRUCTION
1. Assure that Grading Permit and all other necessary permits are obtained from owner.
 2. Notify Howard County Department of Public Works at least 48 hours before start of work. Contact Miss Utility at 1-800-257-TITI at least three days in advance of starting work shown on plans.
 3. With the approval of the sediment control inspector, clear and grub for and install sediment controls including silt fence, super silt fence, inlet protection, and tree protection fencing. Construct stabilized construction entrance (SCE).
 4. Notify Howard County sediment control inspector upon completion of the installation and receive approval to begin construction.
 5. Remove existing sidewalks, existing roadway, and existing storm drain inlets and drain pipe as shown on the demolition plan.
 6. Do not disturb any utilities to remain.
 7. Install storm drain structures and connecting pipes. Install inlet protection on new inlets.
 8. Begin foundation construction for and construct proposed building addition. Construct new walkways, curbs and driveways.
 9. Fine grade all remaining areas.
 10. Provide buffer landscaping installation.
 11. Permanently stabilize all remaining areas within the LOD according to the stabilization notes and the specifications.
 12. Upon stabilization of the site with established vegetation and with the permission of the sediment control inspector, remove sediment control measures and stabilize those areas disturbed by this process.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

<i>David A. Gault</i>	2/19/13	
DIRECTOR	DATE	
<i>Paul Condon</i>	2.14.13	
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE	
<i>Victor S. Lewis</i>	2-19-13	
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE	
4/2/2013 5	REVISE 6" WATERLINE TO 4"	
1/8/2012 4	ADDITION OF NEW GYMNASIUM / ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING	
DATE	NO.	REVISION
OWNER / DEVELOPER		
MOST REVEREND WILLIAM H. KEELER ARCHBISHOP OF BALTIMORE P. O. BOX 155, SAINT LOUIS CHURCH ROUTES 108 & 32 CLARKSVILLE, MD 21029 PHONE: 410-531-6040 C/O MONSIGNOR JOSEPH L. LUCA		
PROJECT		
NEW SANCTUARY, MAINTENANCE BUILDING AND PARKING AREAS		
AREA		
PARCELS 198, 217 AND 30 TAX MAP 34 5th ELECTION DISTRICT ZONED RR-DEO CLARKSVILLE, MD HOWARD COUNTY, MARYLAND 21029		
TITLE		
REVISED LAYOUT & ESC PLAN		

LEGEND

	PROPERTY LINE
	EXISTING TREELINE
	EXISTING FOREST BUFFER
	EXISTING TREES
	EXISTING SHRUBS
	EXISTING WALK
	EXISTING ROAD
	EXISTING CURB
	EXISTING STORM DRAIN
	EXISTING WATER
	EXISTING SANITARY SEWER
	EXISTING GAS
	EXISTING TELEPHONE
	EXISTING ELECTRIC
	EXISTING OVERHEAD ELECTRIC
	EXISTING LIGHTING
	EXISTING FENCE
	EXISTING BUILDING
	PROPOSED WALK
	PROPOSED INTERMEDIATE DUTY BITUMINOUS PAVING
	PROPOSED HEAVY DUTY BITUMINOUS PAVING

	EXISTING GAS
	EXISTING TELEPHONE
	EXISTING ELECTRIC
	EXISTING OVERHEAD ELECTRIC
	EXISTING LIGHTING
	EXISTING FENCE
	EXISTING BUILDING
	PROPOSED WALK
	PROPOSED INTERMEDIATE DUTY BITUMINOUS PAVING
	PROPOSED HEAVY DUTY BITUMINOUS PAVING

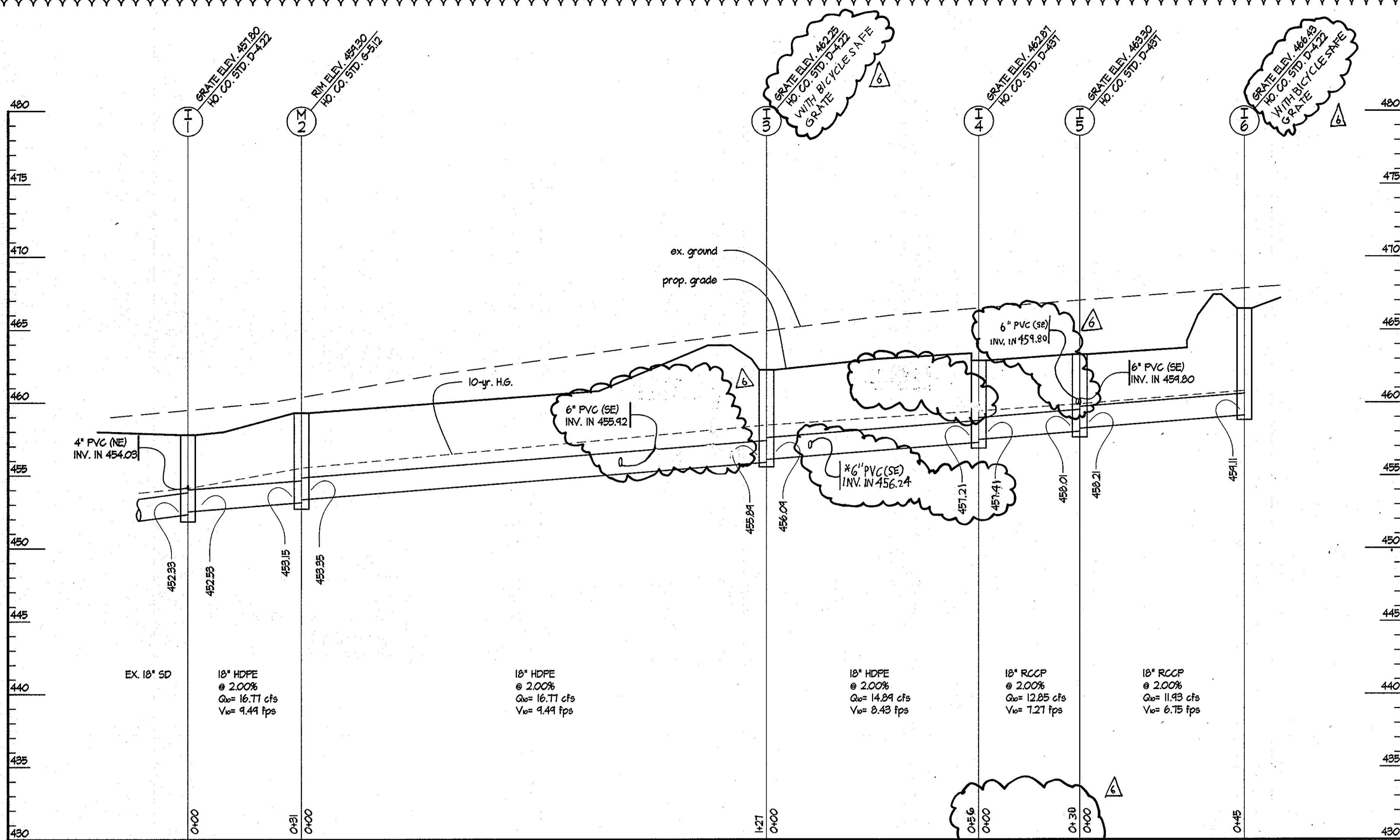
	PROPOSED HEAVY DUTY CONCRETE
	PROPOSED BUILDING
	PROPOSED FLAGPOLE
	DETAIL REFERENCE
	PROPOSED STORM DRAIN
	PROPOSED WATER
	PROPOSED CONTOURS
	EXISTING SPOT ELEVATIONS
	PROPOSED SPOT ELEVATIONS
	SILT FENCE
	SUPER SILT FENCE

	FL-1B	FILTER LOG	
	SIP STANDARD	AGIP AT GRADE	INLET PROTECTION
	CIP CURB	SEFIP SUPER SILT FENCE	STABILIZED CONSTRUCTION ENTRANCE
			LIMIT OF DISTURBANCE
			TREE PROTECTION FENCE
			EROSION CONTROL MATTING

DATE	NO.	REVISION
4.26.2013	6	MODIFICATIONS TO SERVICE AREA

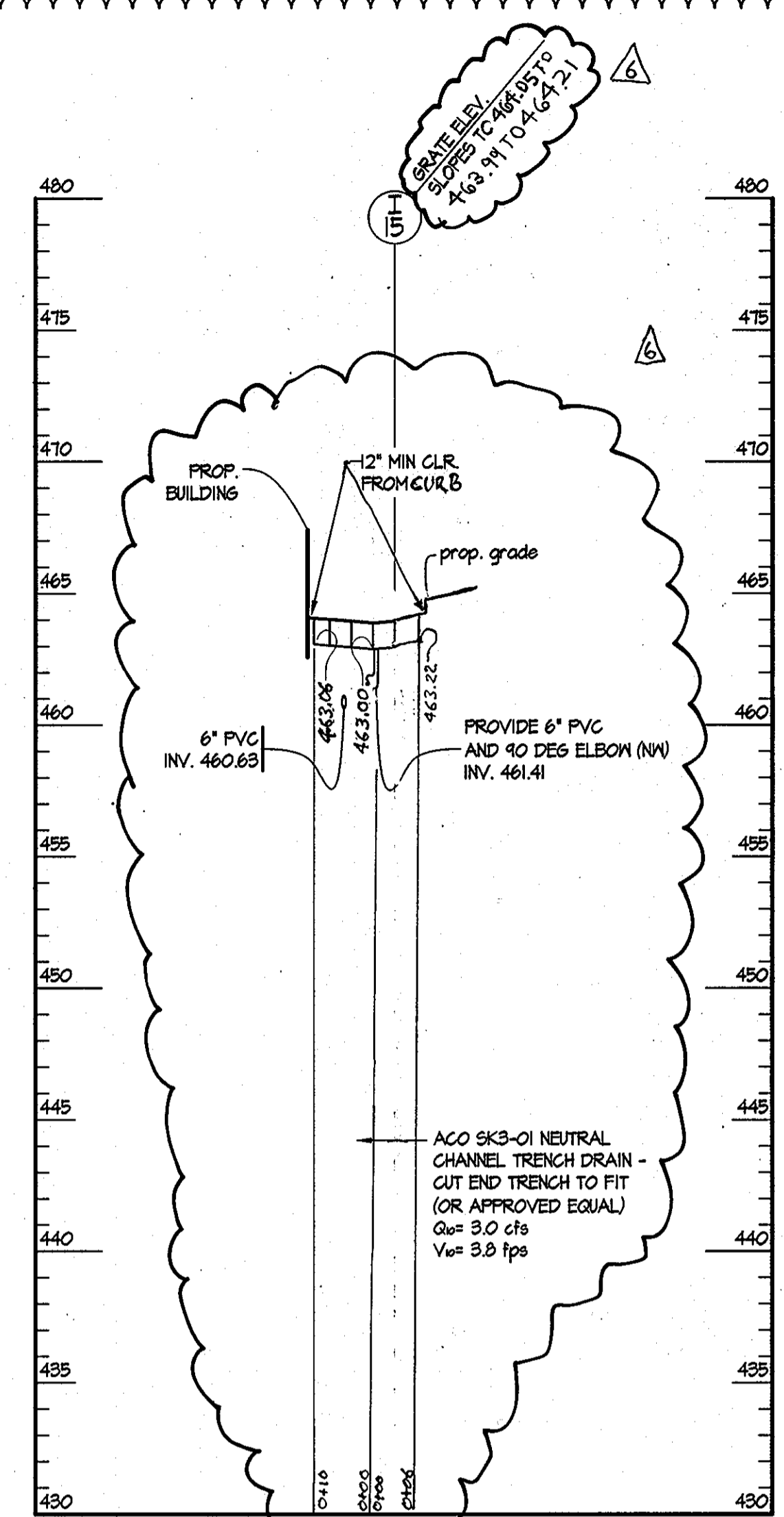
THIS SEAL FOR 4/3/6
 REVISIONS MADE BY SITE
 RESOURCES, INC.

	PROFESSIONAL ENGINEER HOWARD COUNTY, MARYLAND 2.11.13
DRAWING FILE: C	
DESIGNED BY:	
DRAWN BY:	
PROJECT NO.:	
DATE: 02.11.13	
SCALE: AS SHOWN	
DRAWING NO. 32 OF 35	



1 PROFILE 1-6 TO 1-1

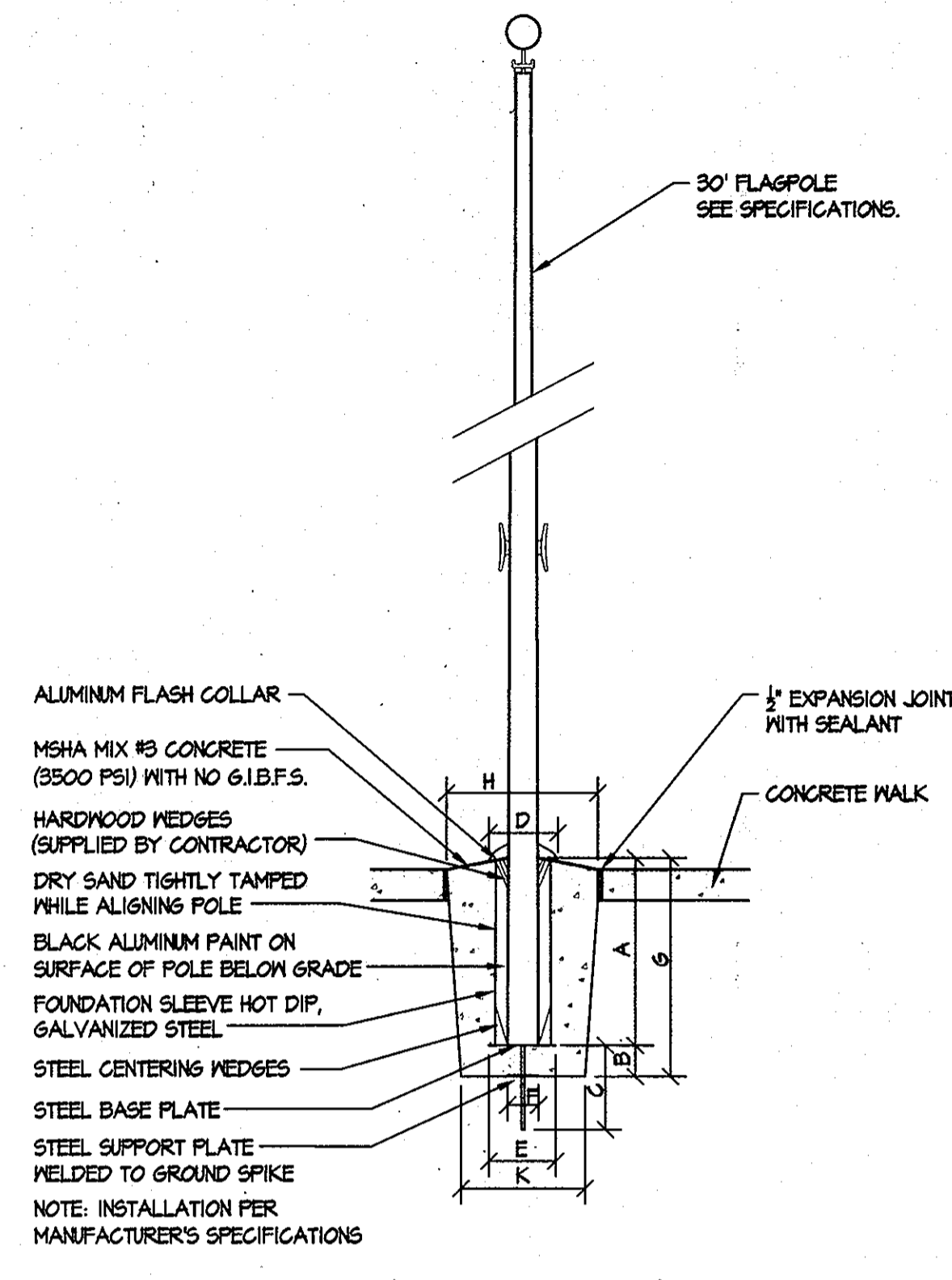
SCALES: HORIZ. 1" = 20'
VERT. 1" = 5'



2 TRENCH DRAIN 1-15

SCALES: HORIZ. 1" = 20'
VERT. 1" = 5'

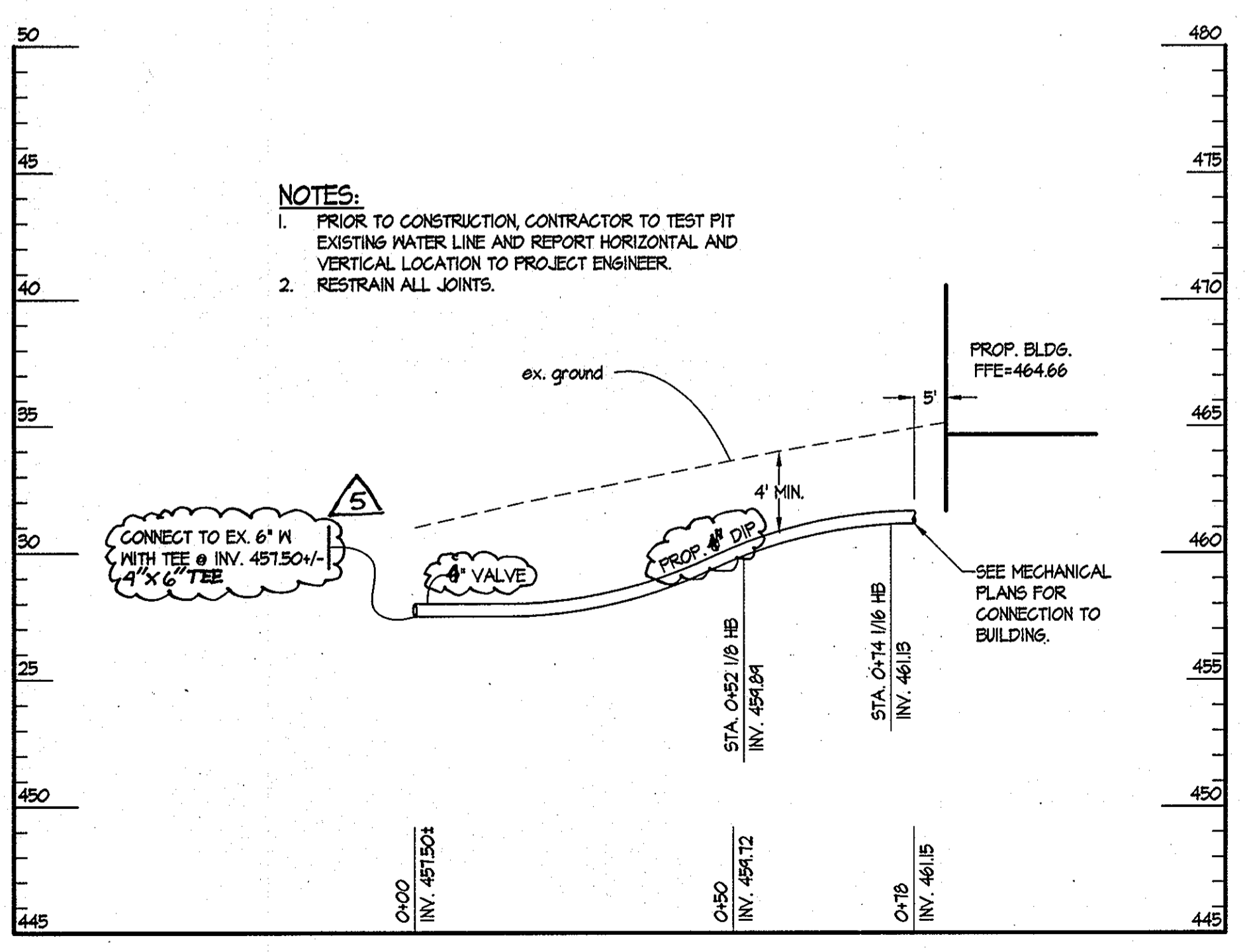
5 FLAGPOLE DETAIL



FOUNDATION DIMENSIONS (EIDER FLAGPOLE COMPANY)

EXPOSED HEIGHT	A	B	C	D	E	F	G	H	K	MODEL #
30'	3'-0"	6"	18"	10"	14"	6"	3'-6"	30"	24"	EG 30

NOT TO SCALE



3 WATER PROFILE

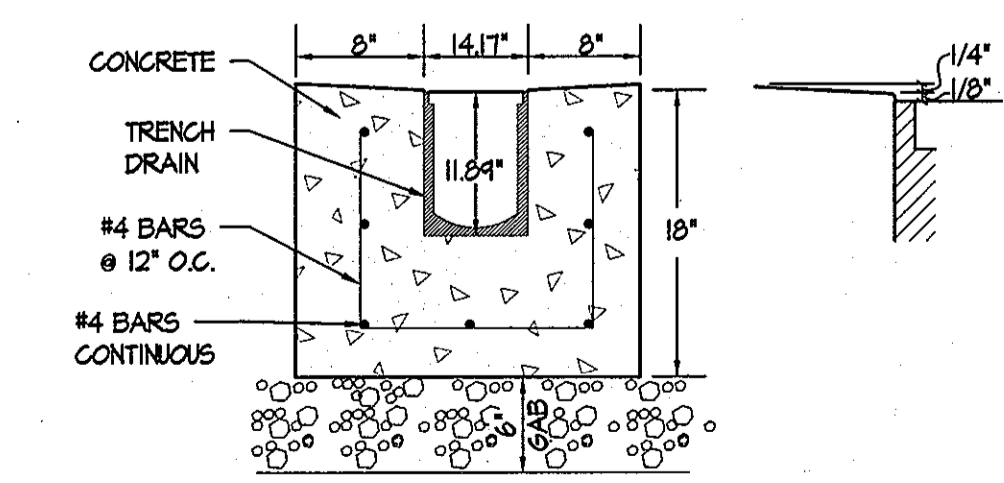
SCALES: HORIZ. 1" = 20'
VERT. 1" = 5'

STRUCTURE SCHEDULE

STRUCTURE NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP	REMARKS
1-1	YARD	N 560341.71, E 1327894.84	452.53	452.3	457.80	HO CO STD DETAIL D4.14 - WITH BICYCLE SAFE GRATE
M-2	4'-0" DIA.	N 560422.98, E 1327893.07	453.35	453.15	459.30	HO CO STD DETAIL G-5.12
1-3	YARD	N 560514.15, E 1327191.18	456.04	455.84	462.25	HO CO STD DETAIL D4.14 - WITH BICYCLE SAFE GRATE
1-4	SINGLE WR	N 560515.71, E 1328036.87	457.45	457.25	462.87	HO CO STD DETAIL D4.37
1-5	SINGLE WR	N 560512.86, E 1328066.40	458.21	458.01	463.30	HO CO STD DETAIL D4.37
1-6	YARD	N 560500.31, E 1328104.35	-	459.11	466.43	HO CO STD DETAIL D4.14 - WITH BICYCLE SAFE GRATE

PIPE SCHEDULE

PIPE LENGTH	PIPE SIZE	TYPE
214'	18"	HDPE
75'	18"	RCCP
151'	6"	PVC



4 TRENCH DRAIN DETAIL

NOT TO SCALE

TRENCH DRAINS SHALL BE ACO SK3-01 NEUTRAL CHANNEL EXTRA HEAVY DUTY CHANNELS (OR APPROVED EQUAL) HAVING A BOTTOM OUTLET AS SHOWN ON THE STORM DRAIN PROFILES. GRATES SHALL BE SLOTTED IRON CLASS F (OR APPROVED EQUAL). CONTRACTOR SHALL INCLUDE ALL OTHER COMPONENTS, COUPLINGS, FITTINGS, AND ACCESSORIES NECESSARY FOR COMPLETION OF THE TRENCH DRAIN SYSTEM IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND AS REQUIRED TO CONNECT THE TRENCH DRAIN SYSTEM INTO THE REMAINING STORM DRAIN SYSTEM.

CONCRETE SHALL BE 4000 PSI @ 28 DAYS, AIR ENTRAINED 4% - 6%. FINISH TOP EXTERIOR WITH HEAVY BROOM FINISH TOWARD GRATE. FORM AND SLOPE CONCRETE 1/4" TOWARD GRATE, AS SHOWN.

RECESS GRATE 1/8" AS SHOWN.

DATE	NO	REVISION
4.26.20	6	MODIFICATIONS TO ROOFRIMS INTO SYSTEM

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Paul A. Uggell 2/19/13
DIRECTOR DATE

Chad Chubb 2.14.13
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Ket Stelmach 2-19-13
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE	NO	REVISION
1/23/2013	5	REVISE 6" WATER LINE TO 2"
11/8/2012	4	ADDITION OF NEW GYMNASIUM / ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING

OWNER / DEVELOPER
MOST REVEREND WILLIAM H. KEELER
ARCHBISHOP OF BALTIMORE
P. O. BOX 1155, SAINT LOUIS CHURCH
ROUTES 108 & 32
CLARKSVILLE, MD 21029
PHONE: 410-531-6040
C/O MONSIGNOR JOSEPH L. LUCA

PROJECT
ST. LOUIS CHURCH
IMPROVEMENTS PHASE 1 11/8/11
NEW SANCTUARY, MAINTENANCE SHED, AND PARKING AREAS
22500 MD ROUTE 108

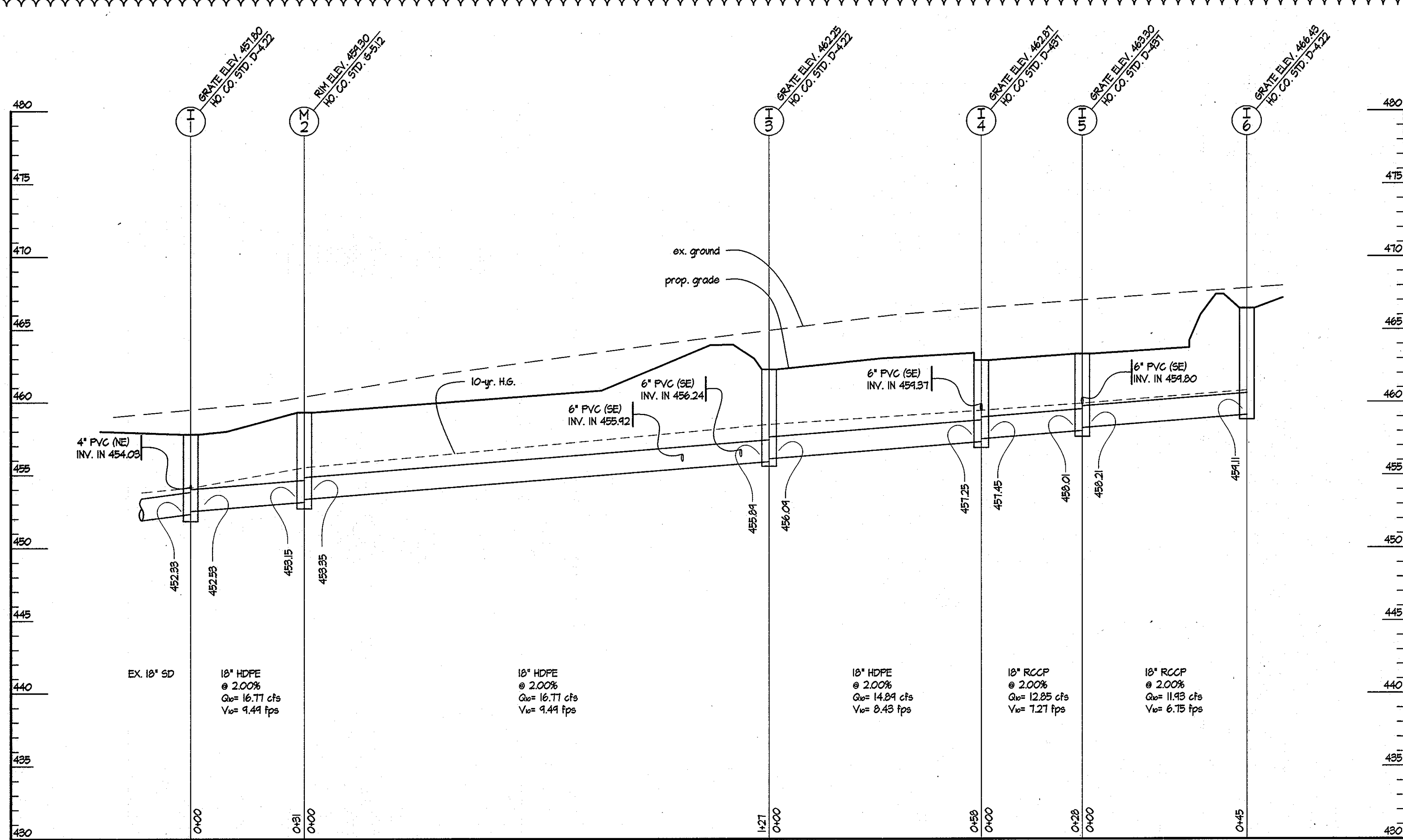
AREA
PARCELS 198, 21 AND 20 TAX MAP 34
5th ELECTION DISTRICT ZONED RR-DEO
CLARKSVILLE, MD
HOWARD COUNTY, MARYLAND 21029

TITLE
REVISED
UTILITY PROFILES & DETAILS

SITE RESOURCES, INC.
14315 Arrettsville Pike • Phoenix, Maryland 21151
(410) 683-3388 • fax (410) 683-3389

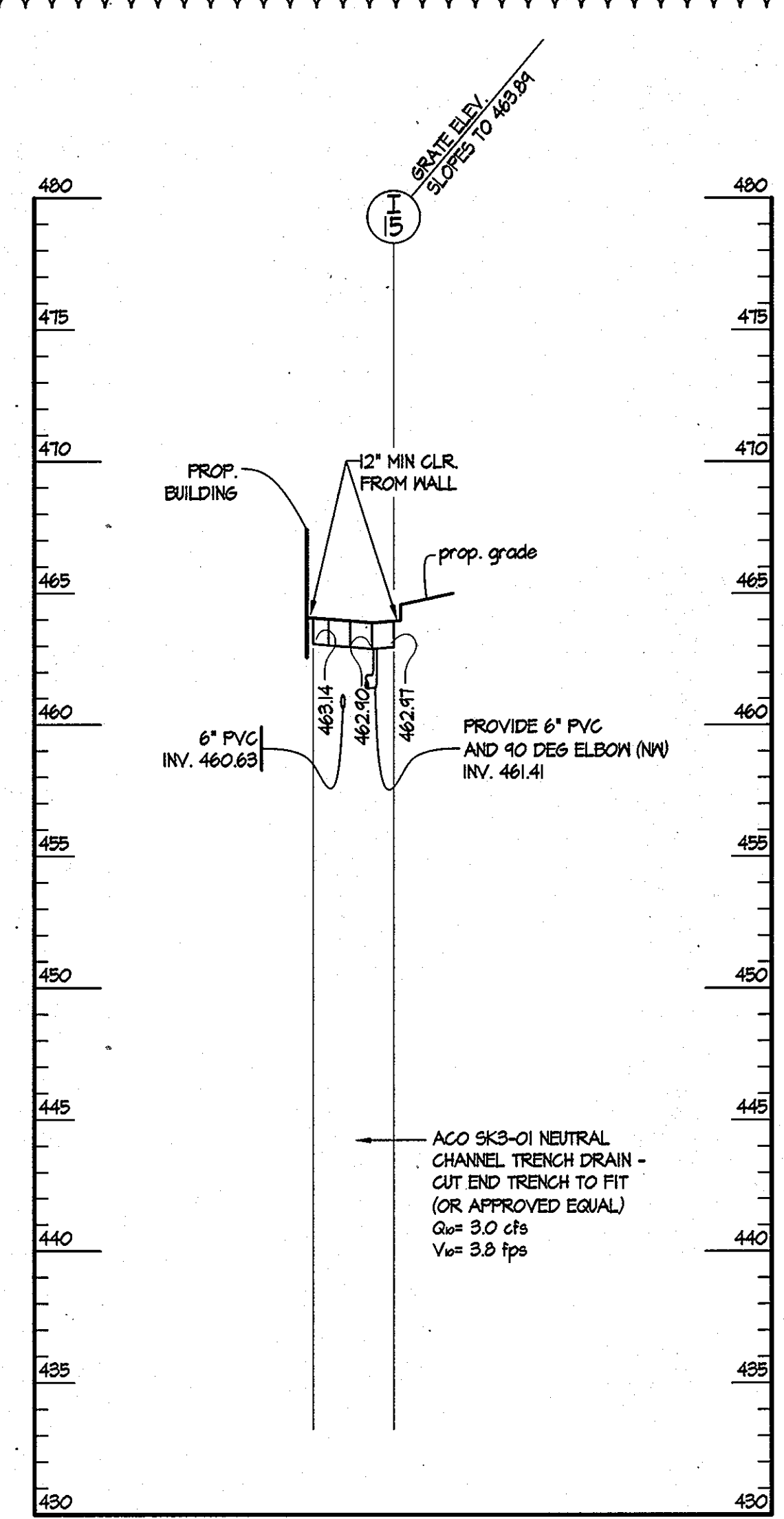
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	DESIGNED BY:
	DRAWN BY:
	PROJECT NO:
	DATE: 02.11.13
SCALE: AS SHOWN	
DRAWING NO. 33 OF 35	

THIS SEAL FOR REVISIONS MADE BY SITE RESOURCES, INC.



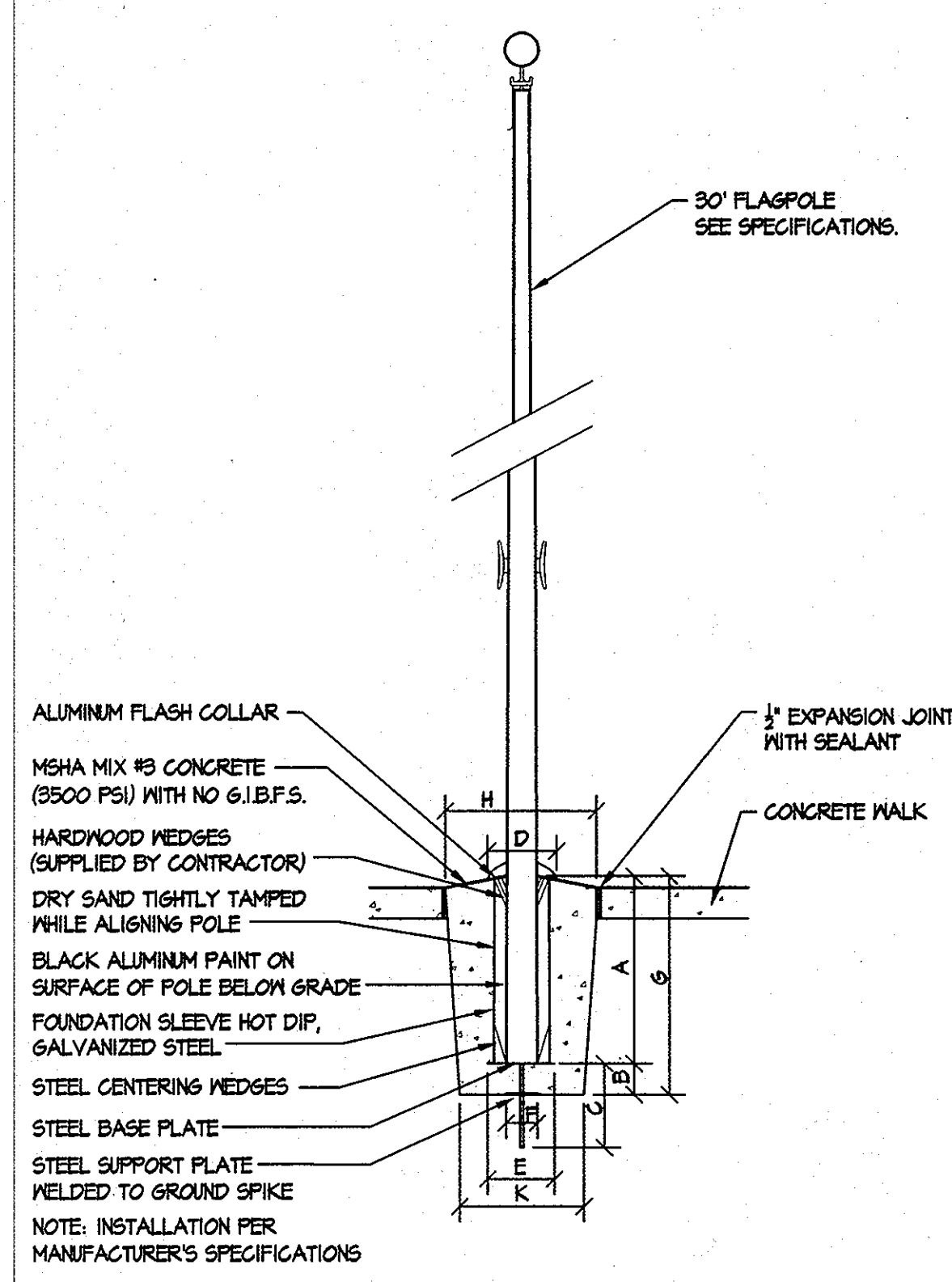
1 PROFILE I-6 TO I-1

SCALES: HORIZ. 1" = 20'
VERT. 1" = 5'



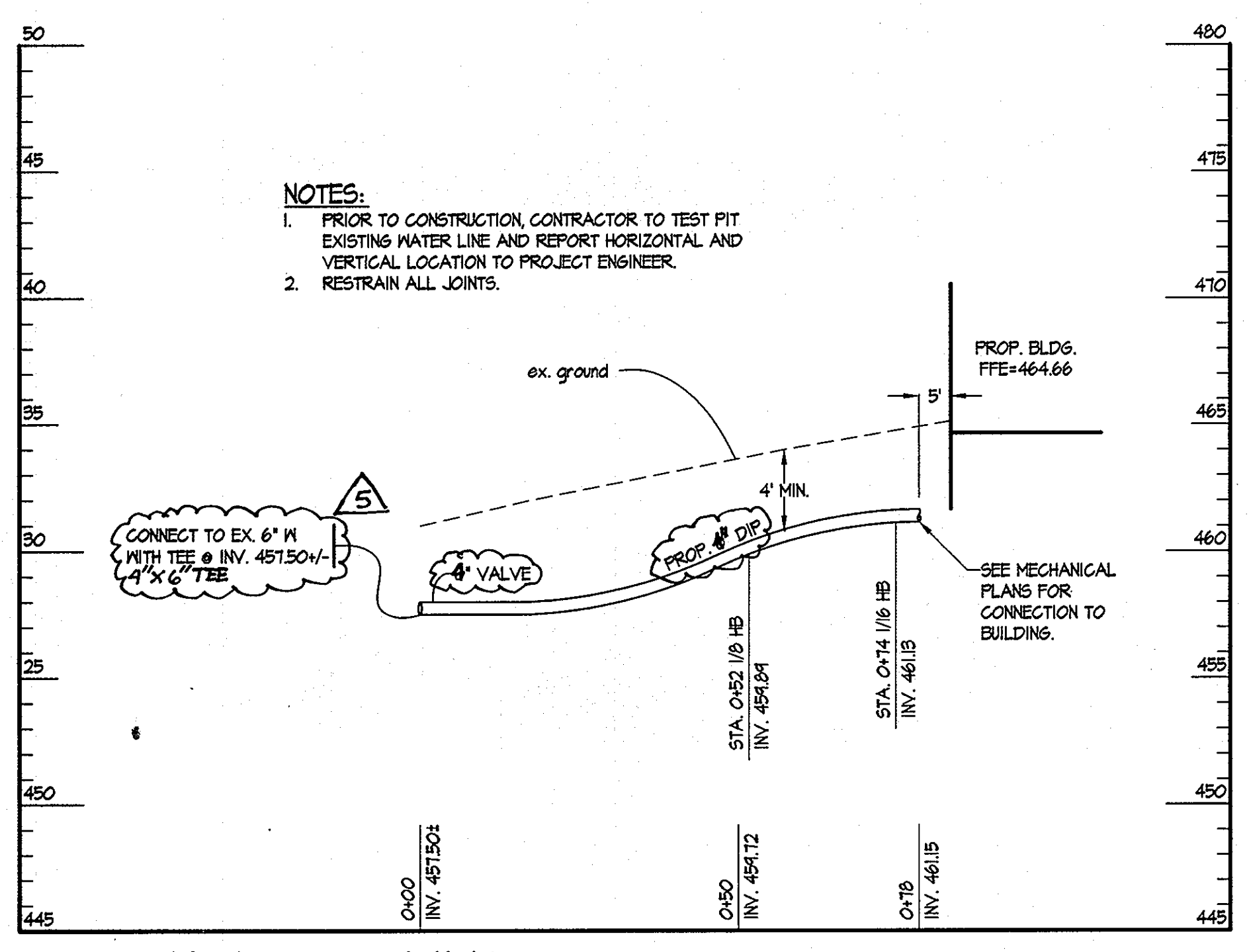
2 TRENCH DRAIN I-15

SCALES: HORIZ. 1" = 20'
VERT. 1" = 5'



5 FLAGPOLE DETAIL

NOT TO SCALE



3 WATER PROFILE

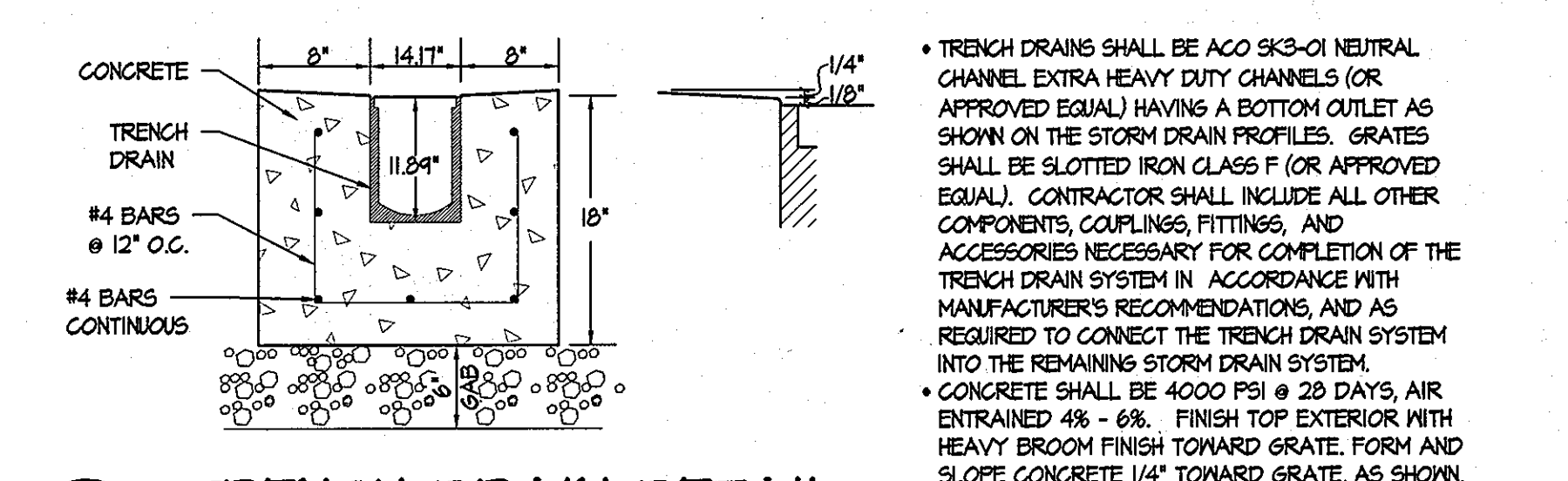
SCALES: HORIZ. 1" = 20'
VERT. 1" = 5'

STRUCTURE SCHEDULE

STRUCTURE NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP	REMARKS
I-1	YARD	N 560391.71, E 1327889.04	452.53	452.3	457.20	HO CO STD DETAIL D4.14 - WITH BICYCLE SAFE GRATE
M-2	4'-0" DIA.	N 560422.49, E 1327843.07	453.35	453.15	454.50	HO CO STD DETAIL G-5.12
I-3	YARD	N 560514.15, E 1327481.18	456.04	455.84	462.25	HO CO STD DETAIL D4.14 - WITH BICYCLE SAFE GRATE
I-4	SINGLE W/R	N 560515.71, E 1328036.21	457.45	457.25	462.21	HO CO STD DETAIL D4.31
I-5	SINGLE W/R	N 560512.26, E 1328066.40	459.21	459.01	463.50	HO CO STD DETAIL D4.31
I-6	YARD	N 560500.31, E 1328104.35	-	459.11	466.43	HO CO STD DETAIL D4.14 - WITH BICYCLE SAFE GRATE

PIPE SCHEDULE

PIPE LENGTH	PIPE SIZE	TYPE
214'	18"	HDPE
75'	18"	RCCP
151'	6"	PVC



4 TRENCH DRAIN DETAIL

NOT TO SCALE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

<i>Frank A. Leight</i>	2/19/13
DIRECTOR	DATE
<i>Chad Chubb</i>	2/14/13
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>Kest Slobin</i>	2-19-13
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
4/3/2013 5	REVISE W/ WATER LINE TO 21"
11/8/2012 4	ADDITION OF NEW GYMNASIUM / ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING
DATE	REVISION

OWNER / DEVELOPER
MOST REVEREND WILLIAM H. KEELER
 ARCHBISHOP OF BALTIMORE
 P. O. BOX 155, SAINT LOUIS CHURCH
 ROUTES 108 & 32
 CLARKSVILLE, MD 21029
 PHONE: 410-531-6040
 C/O MONSIGNOR JOSEPH L. LUCA

PROJECT
ST. LOUIS CHURCH IMPROVEMENTS PHASE 1
 NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS
 22500 MD ROUTE 188

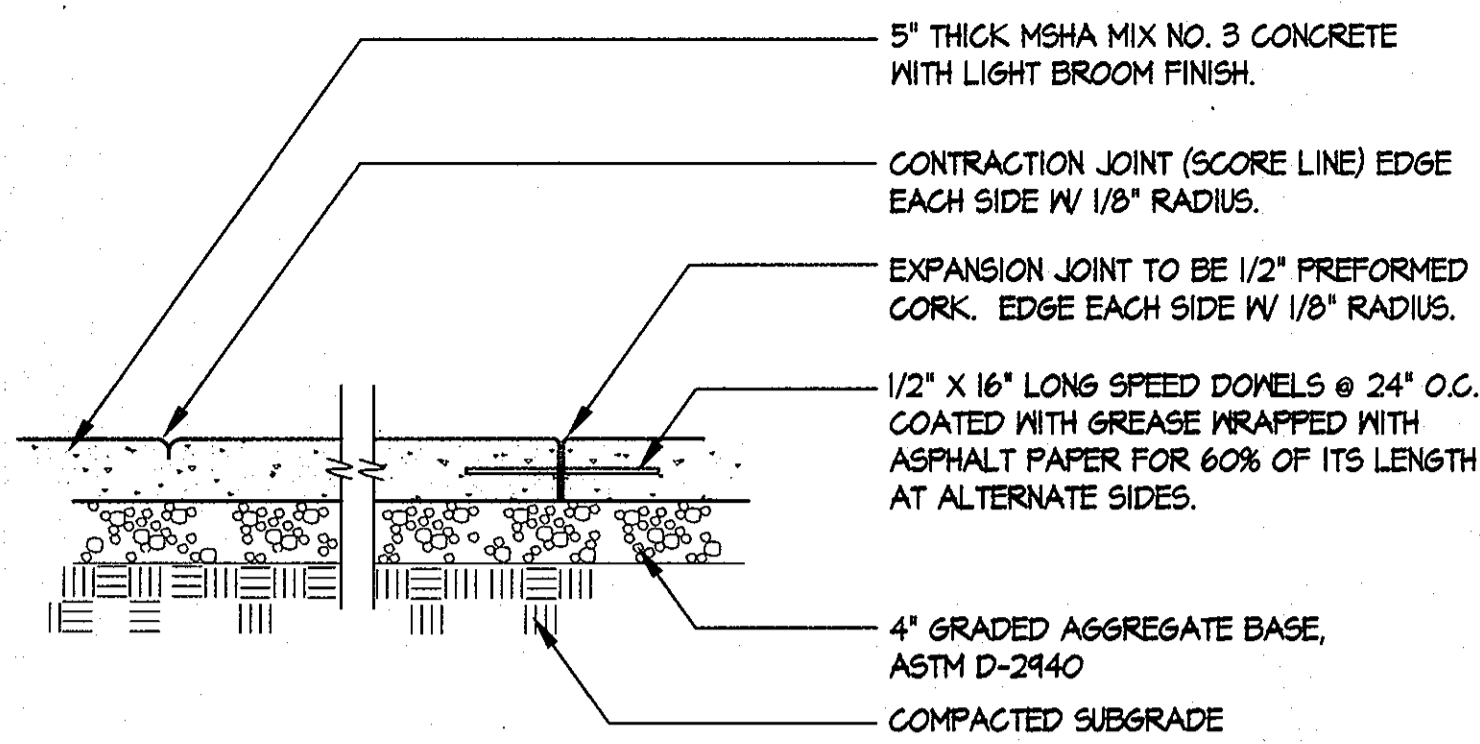
AREA
 PARCELS 196, 24 AND 30 TAX MAP 34
 5th ELECTION DISTRICT ZONED RR-DEO
 CLARKSVILLE, MD
 HOWARD COUNTY, MARYLAND 21029

TITLE
REVISED UTILITY PROFILES & DETAILS

SITE RESOURCES, INC.
 16315 Arrettsville Pike • Poolesville, Maryland 21131
 (410) 683-3388 • fax (410) 683-3389

DRAWING FILE: C
DESIGNED BY:
DRAWN BY:
PROJECT NO:
DATE: 02.11.13
SCALE: AS SHOWN
DRAWING NO. 33 OF 35

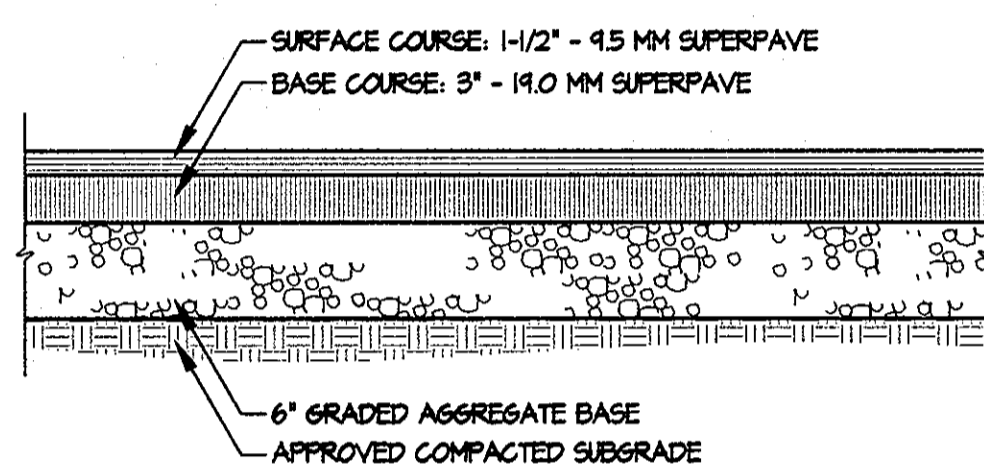
THIS SEAL FOR REVISIONS MADE BY SITE RESOURCES, INC.



- NOTES:**
1. PLACE EXPANSION JOINTS NOT MORE THAN 20'-25' APART AND AT THE END OF EACH CONTIGUOUS POUR.
 2. PLACE CONTRACTION JOINTS AT INTERVAL MATCHING WIDTH OF SIDEWALK BUT NOT MORE THAN 6' APART.
 3. PROVIDE EXPANSION JOINTS WHERE FOUR MEETS EXISTING CONCRETE PAVING OR CURB.
 4. EXPANSION JOINTS TO BE RECESSED 1/4" BELOW SURFACE OF SIDEWALK.
 5. WHEN SIDEWALK ABUTS BACK OF STREET CURB, WALK SHALL BE 1/4" ABOVE TOP OF CURB.
 6. WHEN SIDEWALK ABUTS EXISTING CONCRETE WALK, CORE DRILL AND INSTALL DOVELS PER DETAIL.
 7. MATCH SCORE PATTERN OF ADJACENT SIDEWALK WHERE PRACTICAL.
 8. UNLESS OTHERWISE SHOWN ON PLAN, CONTRACTOR TO SUBMIT LAYOUT OF PROPOSED CONTRACTION EXPANSION JOINTS FOR APPROVAL PRIOR TO POURING CONCRETE.

1 CONCRETE WALK

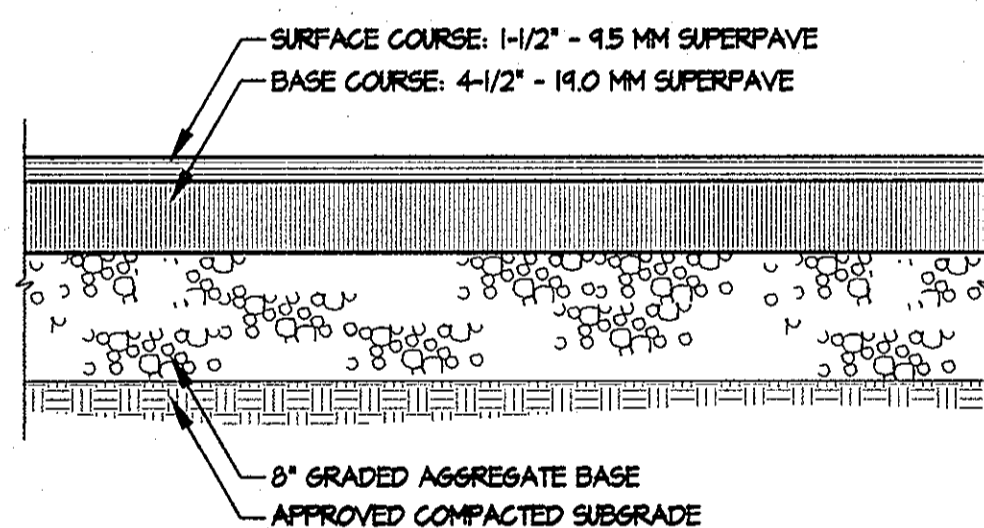
NOT TO SCALE



- NOTES:**
1. A REPRESENTATIVE FROM THE ON-SITE GEO-TECHNICAL ENGINEER SHALL OBSERVE AND TEST ANY COMPACTED FILL TO BE USED FOR PAVEMENT SUPPORT, AND OBSERVE ANY PROOFROLLING OPERATIONS OF PAVEMENT SUBGRADES.
 2. HOWARD COUNTY DETAIL R-2.01 P-2 PAVING MAY BE USED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER ON SITE.

3 INTERMEDIATE-DUTY BITUMINOUS PAVING

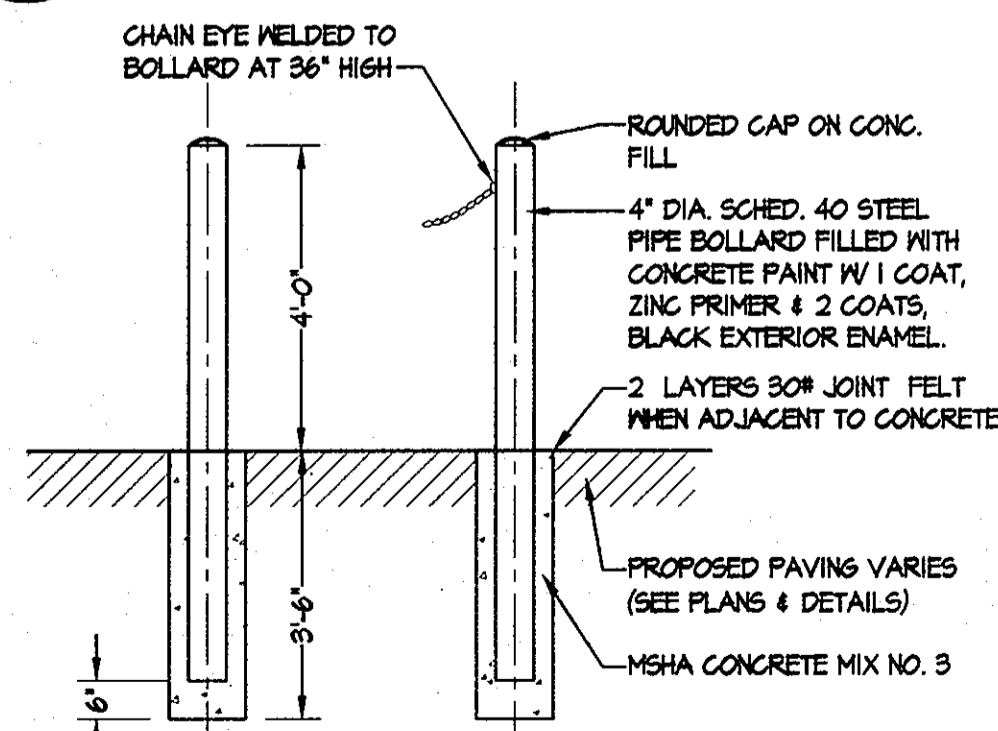
NOT TO SCALE



- NOTES:**
1. A REPRESENTATIVE FROM THE ON-SITE GEO-TECHNICAL ENGINEER SHALL OBSERVE AND TEST ANY COMPACTED FILL TO BE USED FOR PAVEMENT SUPPORT, AND OBSERVE ANY PROOFROLLING OPERATIONS OF PAVEMENT SUBGRADES.
 2. HOWARD COUNTY DETAIL R-2.01 P-3 PAVING MAY BE USED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER ON SITE.

5 HEAVY-DUTY BITUMINOUS PAVING

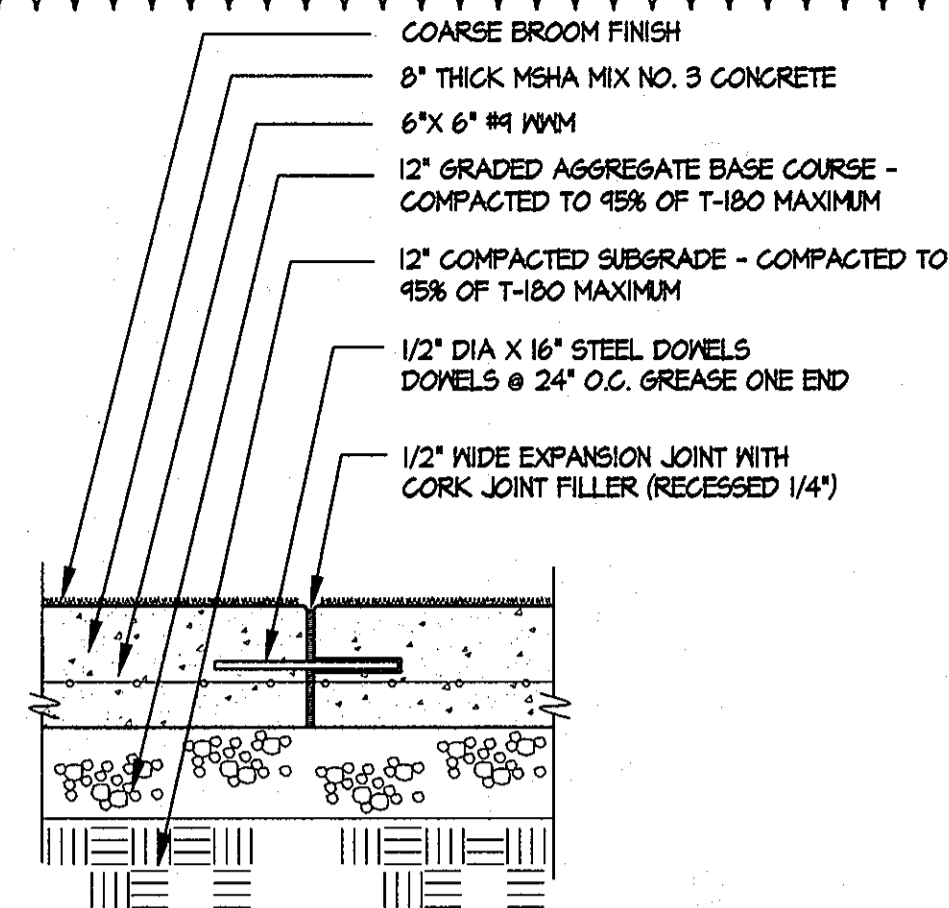
NOT TO SCALE



FIXED BOLLARD

6 BOLLARD DETAILS

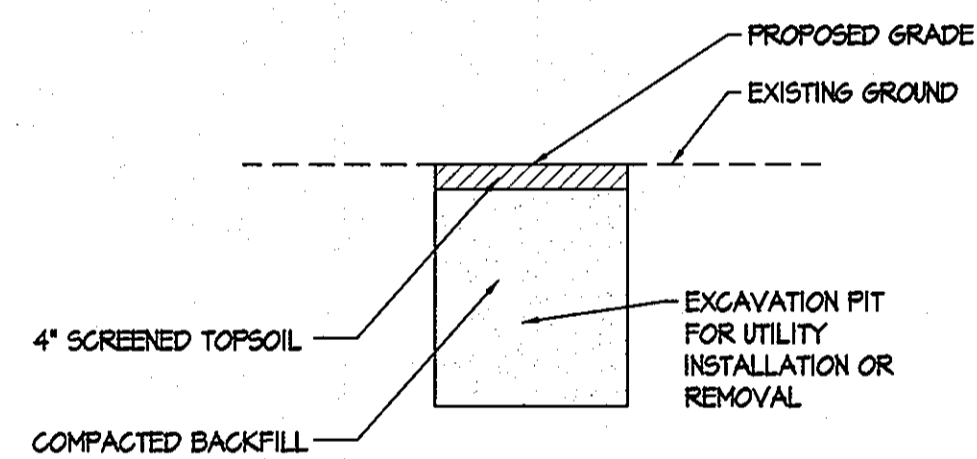
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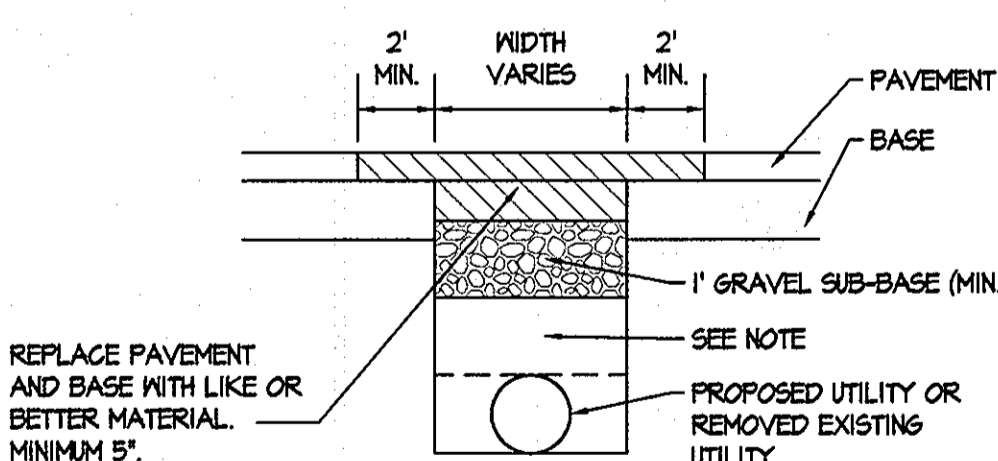
- NOTES:**
1. PROVIDE EXPANSION JOINTS AS SHOWN ON PLAN AT 40' ON CENTER MAX OR CONTRACTOR TO PROVIDE LAYOUT PRIOR TO CONSTRUCTION.
 2. PROVIDE EXPANSION JOINTS WHERE FOUR MEETS EXISTING CONCRETE PAVING OR CURB AND GUTTER.
 3. PROVIDE CONTRACTION JOINTS (SCORE LINES) AS SHOWN ON PLAN AT 2' DEPTH AND 20' ON CENTER MAX OR CONTRACTOR TO PROVIDE LAYOUT PRIOR TO CONSTRUCTION.

2 HEAVY DUTY CONCRETE

NOT TO SCALE



- NOTES:**
1. Backfill shall be in accordance with MSHA specifications and shall be thoroughly compacted in 6\"/>
 - 2. The remaining 4\"/>
 - 3. Whenever sheeting or shoring is required to prevent cave-ins or belling due to the depth of the trench or type of material encountered, the sheeting wherever found necessary, shall remain in place but cut off 1' below the bottom of the replaced surfacing.
 - 4. All backfill replaced shall be compacted to at least 95% of maximum density in accordance with MSHA specifications and certified by an approved geotechnical testing contractor.



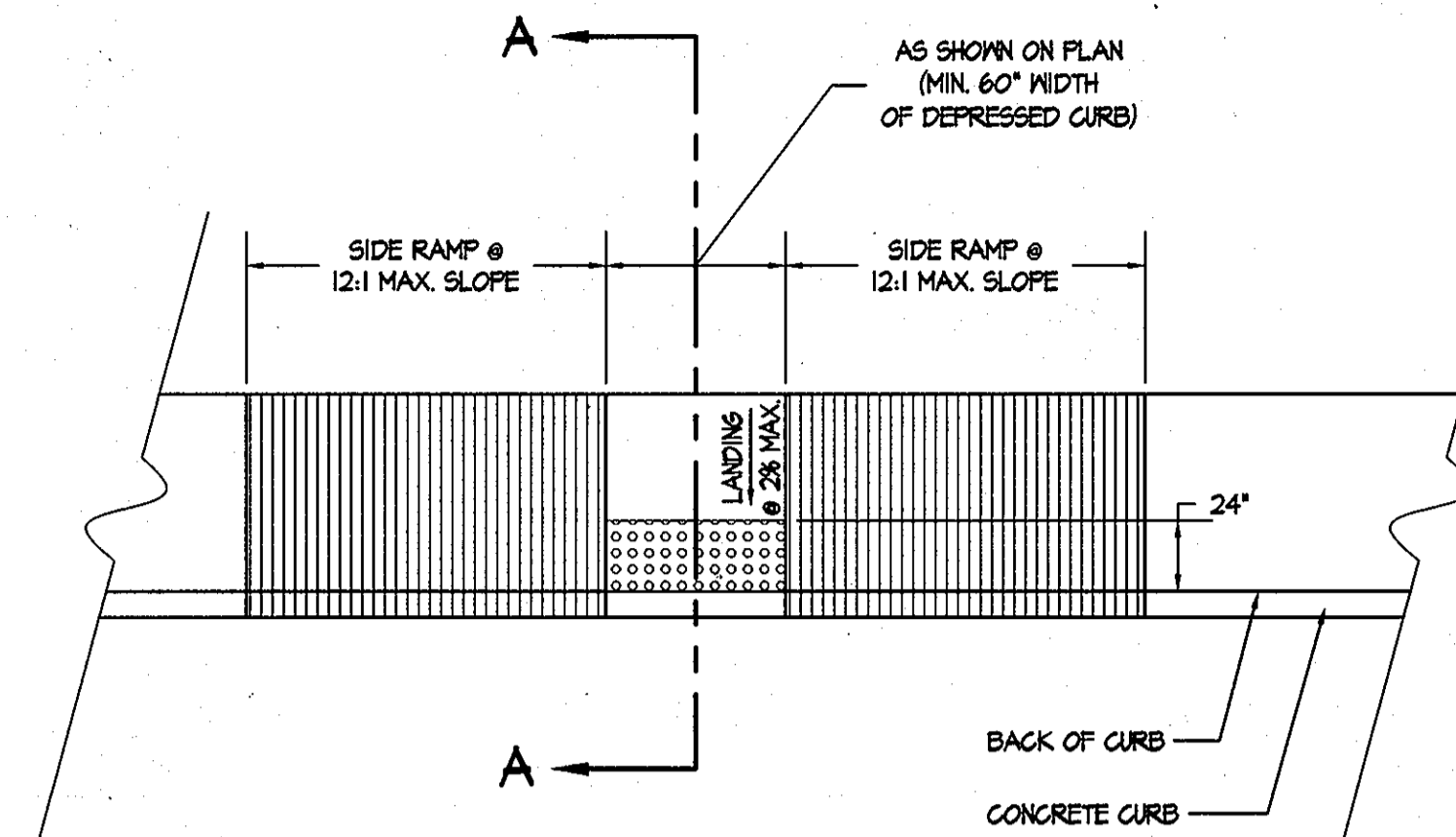
- NOTE:**
- Backfill in trenches shall be in accordance with MSHA specifications and shall be thoroughly compacted in 6\"/>

UTILITY	COVER
TELEPHONE & CABLE	24\"/>
ELECTRIC CABLE	36\"/>
SEWER LINE	48\"/>
WATER LINE	42\"/>
CONCRETE, STEEL PIPES	12\"/>

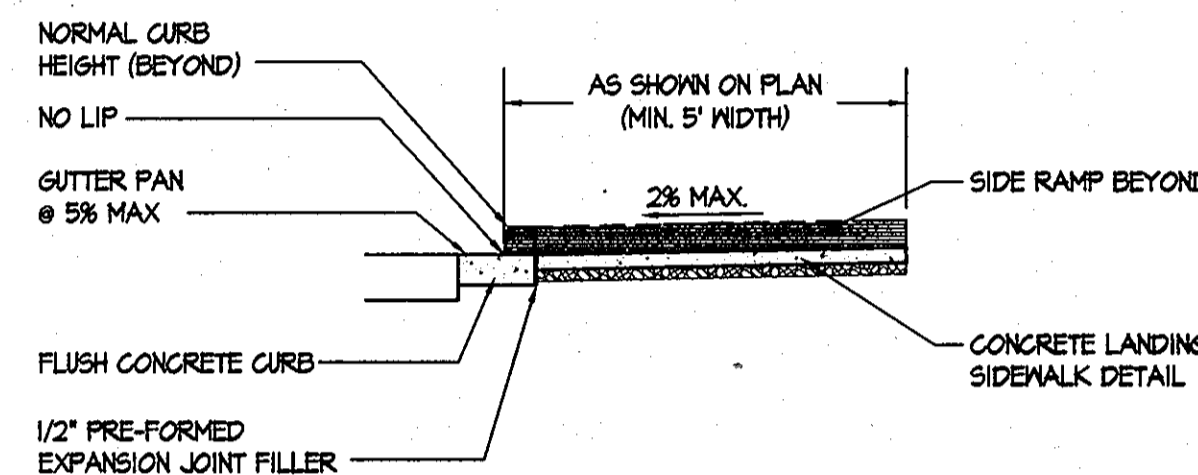
7 SURFACE RESTORATION DETAIL

NOT TO SCALE

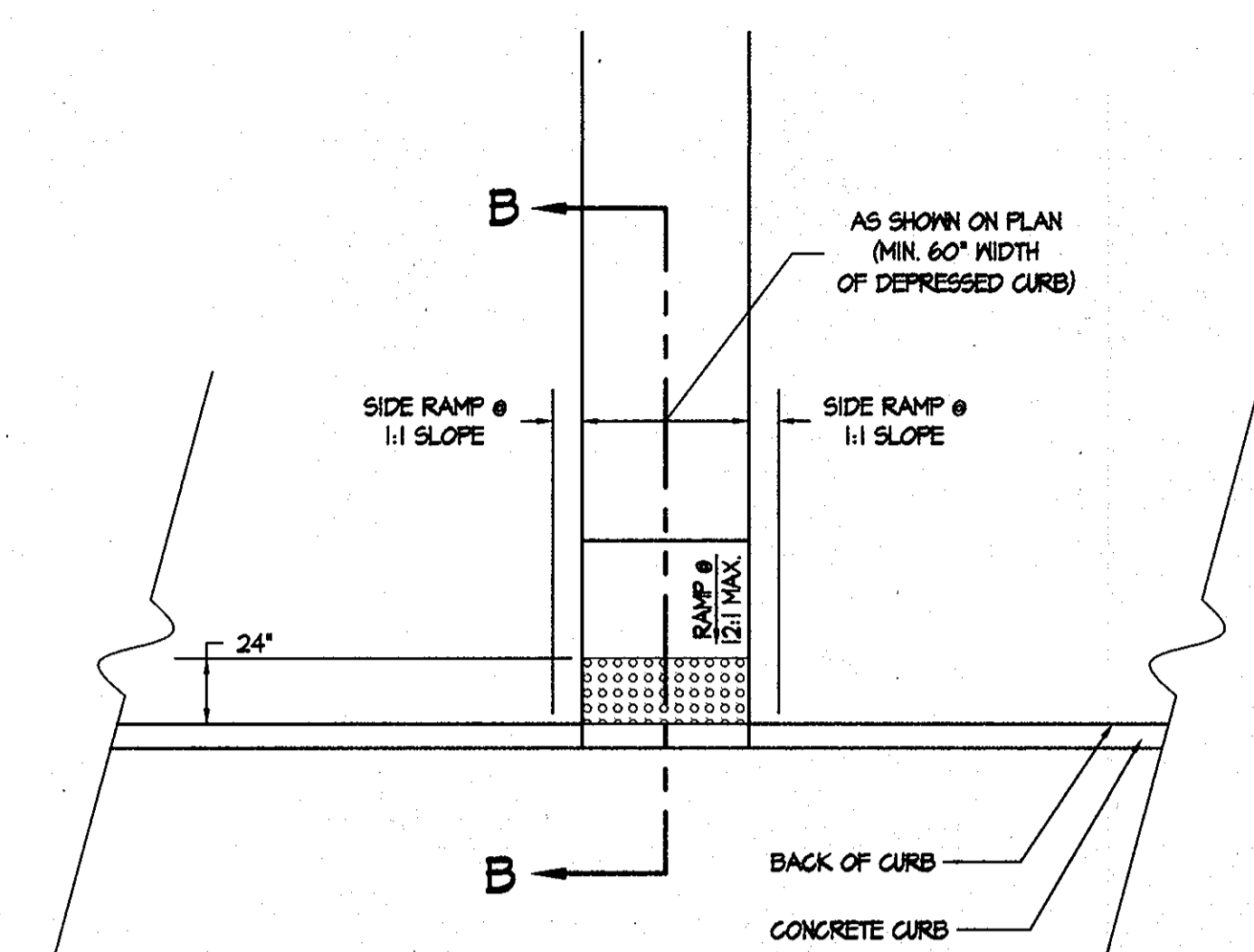
- NOTES:**
1. SURFACE TEXTURE OF ALL CONCRETE RAMPS SHALL BE COARSE BROOMING OR OTHER NON-SKID TYPE FINISH.
 2. TRUNCATED DOME DETECTABLE WARNING STRIPS SHALL BE INSTALLED FOR ALL RAMPS IN ACCORDANCE WITH MARYLAND STATE HIGHWAY ADMINISTRATION STD. NO. MD-655-40.



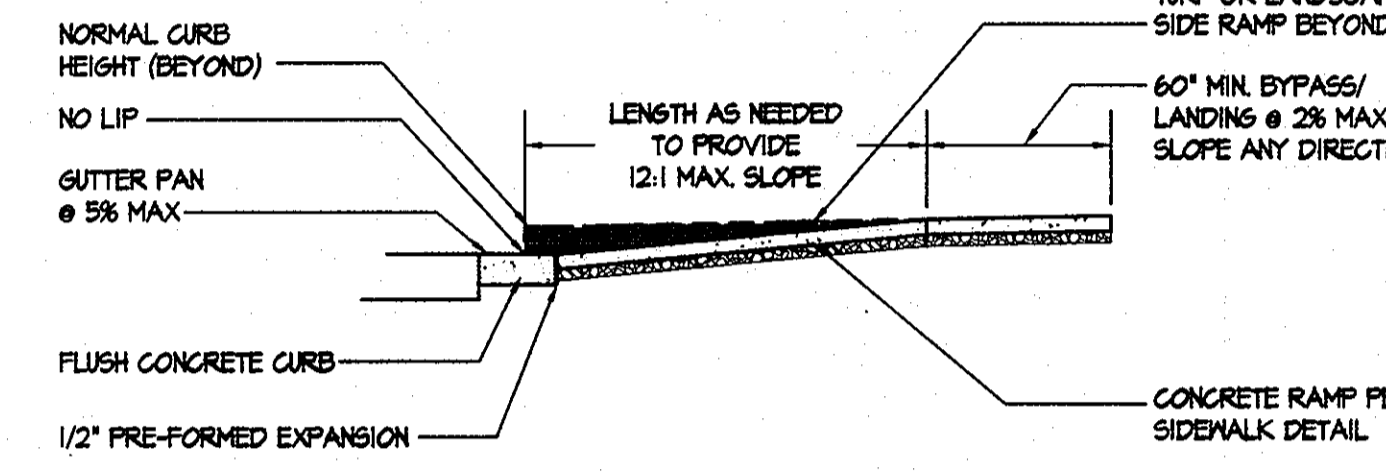
PLAN 'A'



SECTION A-A



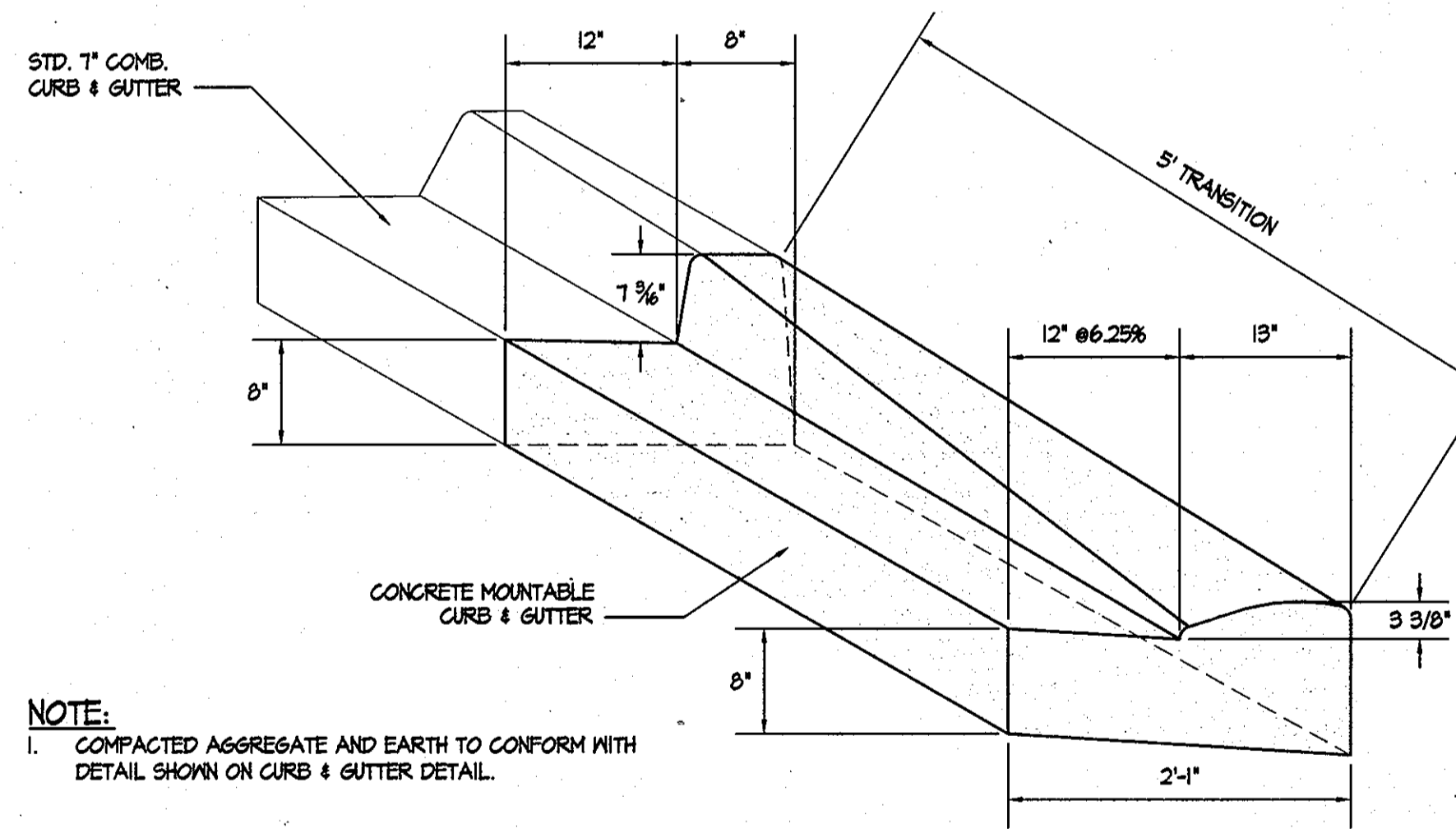
PLAN 'B'



SECTION B-B

4 HANDICAP RAMP

NOT TO SCALE



- NOTE:**
1. COMPACTED AGGREGATE AND EARTH TO CONFORM WITH DETAIL SHOWN ON CURB & GUTTER DETAIL.

8 TRANSITION FROM STD. CURB TO MOUNTABLE CURB

NOT TO SCALE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>David M. Leight</i>	2/19/13
DIRECTOR	DATE
<i>Chad Christman</i>	2/14/13
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>Kevin S. Leight</i>	2-19-13
CHIEF, DIVISION OF LAND DEVELOPMENT/WMU	DATE

11/8/2012	4	ADDITION OF NEW GYMNASIUM / ACTIVITY CENTER TO THE EXISTING SCHOOL BUILDING.
DATE	NO.	REVISION

OWNER / DEVELOPER	
MOST REVEREND WILLIAM H. KEELER ARCHBISHOP OF BALTIMORE P. O. BOX 155, SAINT LOUIS CHURCH ROUTES 108 & 32 CLARKSVILLE, MD 21029 PHONE: 410-531-6040 C/O MONSIGNOR JOSEPH L. LUCA	

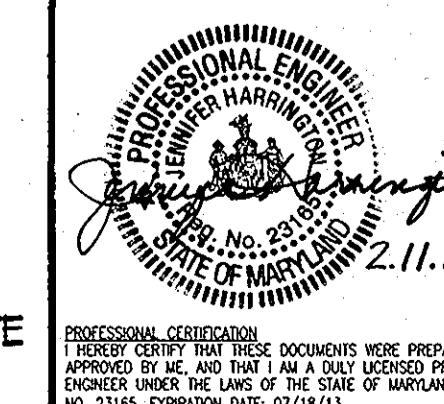
PROJECT	ST. LOUIS CHURCH IMPROVEMENTS PHASE 1
NEW SANCTUARY, MAINTENANCE SHED AND PARKING AREAS	111&111

AREA	PARCELS 196, 24 AND 30 TAX MAP 34 5th ELECTION DISTRICT ZONE RR-DEO CLARKSVILLE, MD HOWARD COUNTY, MARYLAND 21029
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TITLE	REVISED SITE DETAILS
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SITE RESOURCES, INC.
16115 Arrettsville Pike • Poolesville, Maryland 21131
(410) 883-3388 • fax (410) 883-3389

DRAWING FILE: C
DESIGNED BY:
DRAWN BY:
PROJECT NO:
DATE: 02.11.13
SCALE: AS SHOWN
DRAWING NO. 34 OF 35



THIS SEAL FOR REVISIONS MADE BY SITE RESOURCES, INC.