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1021 DULANEY VALLEY RD
BALTIMORE MD 21204

50% CONSTRUCTION DOCUMENTS

APRIL 28, 2017

AYERS SAINT GROSS PROJECT NUMBER: 21641.00

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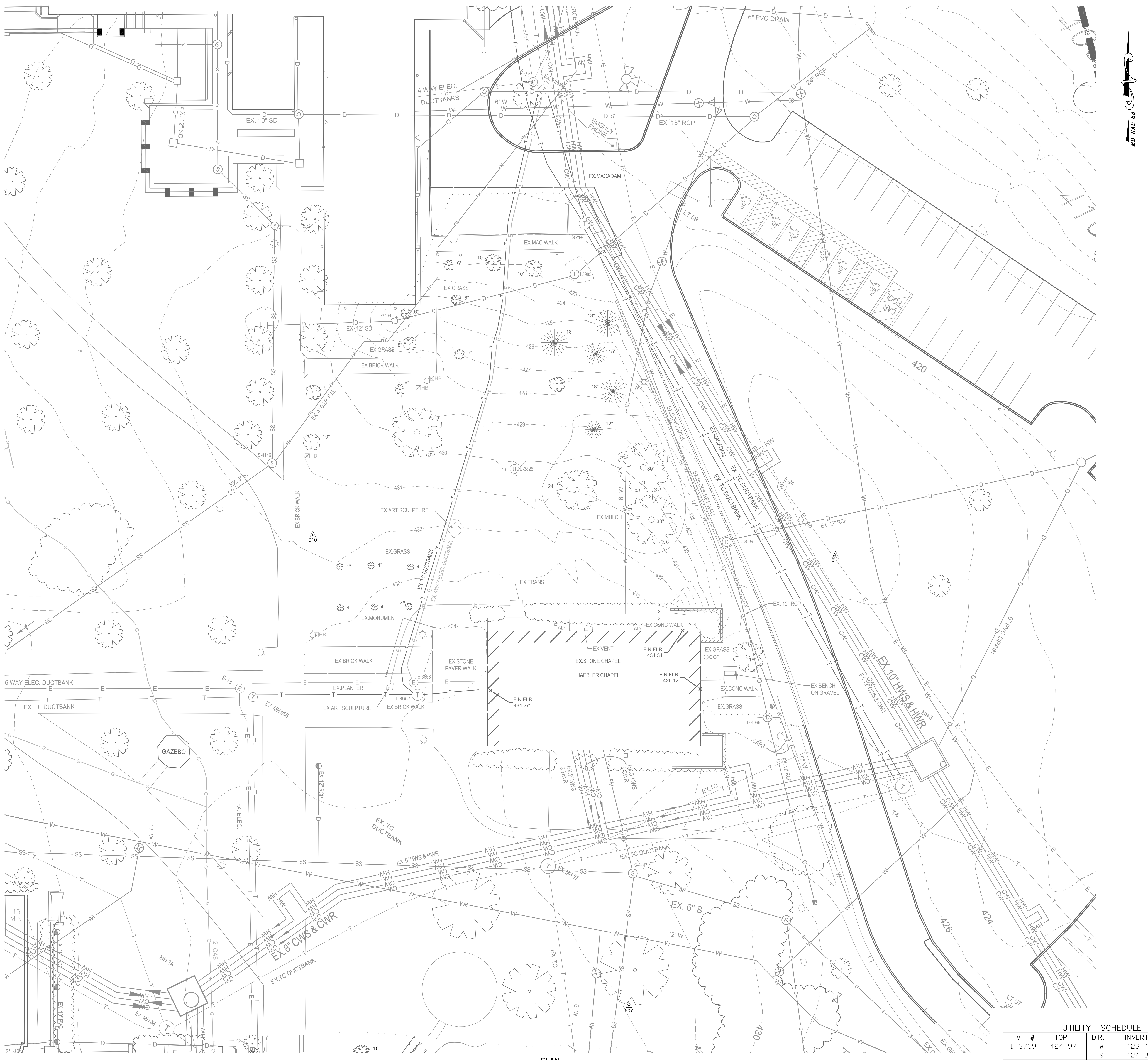
DRAWING LIST	
SHEET NUMBER	SHEET NAME
A0.00	COVER SHEET
C0.01	EXISTING CONDITIONS PLAN
C1.01	DEMOLITION PLAN
C2.01	SITE PLAN
C2.02	UTILITY PROFILES
C3.01	STORMWATER MANAGEMENT PLAN
C3.02	STORMWATER MANAGEMENT DETAILS
C4.01	EROSION AND SEDIMENT CONTROL PLAN
C4.02	EROSION AND SEDIMENT CONTROL NOTES
C4.03	EROSION AND SEDIMENT CONTROL DETAILS
L1.00	MATERIALS PLAN
L2.00	SECTIONS AND ELEVATIONS
L3.00	PLANTING PLAN
L4.00	DETAILS
L4.01	DETAILS
S1.00	FOUNDATION AND LOWER LEVEL PLAN
S1.01	GROUND LEVEL FRAMING PLAN
S1.02	LEVEL 2 FRAMING PLAN
S1.03	ROOF FRAMING PLAN
S2.01	FOUNDATION DETAILS AND GENERAL NOTES
S2.02	FOUNDATION DETAILS
S2.03	FOUNDATION DETAILS
S3.01	TYPICAL STEEL DETAILS
S3.02	TYPICAL WOOD FRAMING DETAILS
S3.03	TYPICAL WOOD FRAMING DETAILS
S3.04	FLOOR FRAMING DETAILS
S4.01	TYPICAL ROOF DETAILS
S4.02	ROOF DETAILS
S4.03	ROOF DETAILS
S5.01	LIST OF SPECIAL INSPECTIONS
A0.10	ABBREVIATIONS AND SYMBOLS
A0.20	CODE SUMMARY & EGRESS PLANS
A1.00	ARCHITECTURAL SITE PLAN
A1.10	SELECTIVE DEMOLITION PLANS
A2.00	FLOOR PLAN - LOWER LEVEL & LEVEL 1
A2.01	FLOOR PLAN - LEVEL 2 & ROOF
A2.11	ENLARGED PLANS - INTERFAITH CENTER LEVEL 2 & CHAPEL
A3.10	REFLECTED CEILING PLAN - LOWER LEVEL & LEVEL 1
A3.11	REFLECTED CEILING PLAN - LEVEL 2 & CHAPEL
A4.01	BUILDING ELEVATIONS
A4.10	BUILDING SECTIONS
A5.01	WALL SECTIONS
A5.02	WALL SECTIONS
A5.11	EXTERIOR ASSEMBLIES
A6.00	STAIR AND ELEVATOR PLANS & SECTIONS
A7.00	INTERIOR ELEVATIONS
A7.01	INTERIOR ELEVATIONS
A7.10	INTERIOR DETAILS
A8.00	FINISH FLOOR PLANS
A9.11	STOREFRONT DETAILS
A9.20	PARTITION TYPES
A9.30	FINISH SCHEDULE
M0.10	LEGEND
M2.01	FLOOR PLAN - LOWER LEVEL - HVAC
M2.02	FLOOR PLAN - GROUND LEVEL - HVAC
M2.03	FLOOR PLAN - LEVEL 2 - HVAC
M3.01	MECHANICAL ROOM PART PLAN - LOWER LEVEL - HVAC
M4.01	SCHEMATICS
M5.01	DETAILS
M5.02	DETAILS
M5.03	DETAILS
M6.01	SCHEDULES
P2.00	FLOOR PLAN - FOUNDATION PLUMBING
P2.01	FLOOR PLAN - LOWER LEVEL PLUMBING
P2.02	FLOOR PLANS - GROUND LEVEL - PLUMBING
P2.03	FLOOR PLANS - LEVEL 2 - PLUMBING
P5.01	DETAILS
P6.01	SCHEDULES
E0.01	ELECTRICAL LEGEND
E2.01	FLOOR PLANS - LOWER LEVEL - ELECTRICAL
E2.02	FLOOR PLANS - GROUND LEVEL - ELECTRICAL
E2.03	FLOOR PLANS - LEVEL 2 - ELECTRICAL
E5.01	DETAILS
E6.01	ONE LINE DIAGRAM & SCHEDULES
T0.10	TECHNOLOGY SYSTEMS NOTES, SYMBOLS, AND ABBREVIAIONS
T2.00	TECHNOLOGY SYSTEMS FLOOR PLAN - LOWER LEVEL
T2.01	TECHNOLOGY SYSTEMS FLOOR PLAN - LEVEL 1
T2.02	TECHNOLOGY SYSTEMS FLOOR PLAN - LEVEL 2
T3.00	TECHNOLOGY SYSTEMS REFLECTED CEILING PLAN - LOWER LEVEL
T3.01	TECHNOLOGY SYSTEMS REFLECTED CEILING PLAN - LEVEL 1
T3.02	TECHNOLOGY SYSTEMS REFLECTED CEILING PLAN - LEVEL 2
T4.00	TECHNOLOGY SYSTEMS - AV DETAILS
T4.01	TECHNOLOGY SYSTEMS - SECURITY DETAILS
T4.02	TECHNOLOGY SYSTEMS - TELECOM CABLING DETAILS

BY DEFINITION PROGRESS PRINTS ARE INCOMPLETE. EFFORTS HAVE BEEN MADE TO DESCRIBE SCOPE OF MATERIALS, FINISHES AND ASSEMBLIES FOR UNDERSTANDING INTENT OF FINISHED FACILITY. COORDINATION AND RESOLUTION OF INTERFACE BETWEEN VARIOUS SYSTEMS REMAIN TO BE FULLY EVALUATED AND RESOLVED. ANY USE OF THESE DOCUMENTS FOR PRICING OF A FINISHED PROJECT MUST MAKE ALLOWANCE FOR ADJUSTMENTS IN LOCATION, ALIGNMENT, REASONABLE QUANTITY ALTERATIONS, AND COMPLIANCE WITH MANUFACTURER WARRANTY REQUIREMENTS AND INSTALLATION REQUIREMENTS



PLAN
SCALE: 1" = 20'

LEGEND

BOLLARD/POST	⊙
BUSHES	4'
CLEAN OUT	○ C.O.
DRAIN INLET	□
ELECTRIC BOX	□ E.B.
ELECTRIC CONDUIT	○ E.C.
ELECTRIC MH	Ⓔ
ELECTRIC RISER	○ E.R.
FIRE HYDRANT	
FIRE CONNECTION	
FLAG POLE	○ FP
FLOOR DRAIN	○ FD
OBSERVATION WELL	OBS
GAS VALVE	GV
HAND BOX	☒ H.B.
INLET MH	Ⓘ
METAL POLE	○ MP
PARKING METER	◎ P.M.
POWER POLE	
PROPERTY MON.	● 600
ROOF DRAIN	○ RD
SANITARY MH	Ⓢ
SIGN (ONE-POST)	
SIGN (TWO POST)	
STEAM MH	Ⓗ
STORM DRAIN MH	Ⓓ
STREET LIGHT	
TELEPHONE MH	Ⓣ
TELEPHONE RISER	○ T.R.
TRAVERSE STATION	△ 900
TREES	10" 12"
UNKNOWN MH	Ⓤ
WATER MH	Ⓦ
WATER FOUNTAIN	○ W.F.
WATER VALVE	
WELL	Ⓦ
MAJOR CONTOUR	– – – 500 – – –
MINOR CONTOUR	— — 501 — —
WALL	
BUILDING	
CONC. CURB	
CONC. PAD/WALK	
METAL PLATE	▬
SURVEY LIMITS	· · · · ·
FENCE LINE	—X—X—X—
WOODS LINE	
O/H ELECTRIC	— — OHE — —
U/G ELECTRIC	—E—
U/G GAS	—G—
U/G SANITARY	—SS—
U/G STEAM	—ST—
U/G STORM	—D—
U/G WATER	—W—

GENERAL NOTES

1. THIS PLAT IS BASED UPON A FIELD-RUN TOPOGRAPHIC SURVEY PERFORMED BY WBCM IN DECEMBER, 2016 AND REFLECTS SITE CONDITIONS AS OF THAT DATE.

2. COORDINATES AND DIRECTIONS SHOWN HEREON ARE REFERRED TO THE MERIDIAN OF THE MARYLAND STATE PLANE COORDINATE SYSTEM(NAD83) AS DETERMINED FROM REAL TIME KINEMATIC SURVEYING AS BROADCAST BY THE TOPCON NETWORK.

   BASE STATION
   LATITUDE 39° 30' 53.75862636" N
   LONGITUDE 76° 38' 36.25981219" W

3. ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), AS DETERMINED BY R.T.K. G.P.S. OBSERVATONS AS BROADCASTED BY THE TOPCON NETWORK(WGS84).

   BASE STATION
   ELEVATION = 125.50'

3. ADDITIONAL SPOT ELEVATIONS RESIDE IN THE ELECTRONIC VERSION OF THIS DRAWING BUT ARE NOT PLOTTED HEREON.

4. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE DESCRIPTION OF THE UNDERGROUND UTILITIES AS SHOWN HEREON WERE BASED SOLEY UPON FIELD OBSERVATIONS AND HAVE NOT BEEN COMPARED TO OR VERIFIED WITH RECORD UTILITY DRAWINGS OR FIELD TEST PITS. THE SIZE, TYPE AND LOCATION OF THE UTILITY LINES SHOULD BE VERIFIED BY THE USER OF THIS DRAWING.

5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ACTUAL SITE CONDITIONS PRIOR TO THE START OF ANY WORK. THERE IS NO WARRANTY OR GUARANTEE ON THE COMPLETENESS OR CORRECTNESS OF THE EXISTING CONDITION INFORMATION. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE START OF ANY WORK.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" AT 1-800-257-7777 THREE DAYS PRIOR TO THE START OF ANY EXCAVATION WORK.

7. THE WORDS "CERTIFY" OR "CERTIFICATION" AS USED HEREON ARE UNDERSTOOD TO BE AN EXPRESSION OF PROFESSIONAL OPINION BY THE UNDERSIGNED SURVEYOR, BASED UPON HIS BEST KNOWLEDGE, INFORMATION, AND BELIEF. AS SUCH, IT DOES NOT CONSTITUTE A GUARANTEE NOR A WARRANTY, EXPRESSED OR IMPLIED.

CIVIL DRAWING INDEX

C001	EXISTING CONDITIONS PLAN
C101	DEMOLITION PLAN
C201	SITE PLAN
C202	UTILITY PROFILES
C301	STORMWATER MANAGEMENT PLAN
C302	STORMWATER MANAGEMENT DETAILS
C401	EROSION AND SEDIMENT CONTROL PLAN
C402	EROSION AND SEDIMENT CONTROL NOTES
C403	EROSION AND SEDIMENT CONTROL DETAILS

W.B.C.M. SURVEY TRAVERSE CONTROL LISTING

PT#	NORTHING	EASTING	ELEV.	DESCRIPTION
900	634,857.58	1,427,613.23	426.05	REBAR & CAP
907	634,822.80	1,427,408.39	433.45	REBAR & CAP
910	634,931.90	1,427,180.57	431.77	REBAR & CAP
911	635,042.54	1,427,385.67	426.70	REBAR & CAP

UTILITY SCHEDULE

MH #	TOP	DIR.	INVERT	SIZE & TYPE
I-3709	424.97	W	423.47	6" PVC
		S	424.37	12" RCP
		N/W	423.22	12" RCP
U-3825	430.41	MISC. UTIL PIPES		
I-3985	421.55	-	417.74	FLOOR
			COVERED W\TARP	
D-3999	424.57	-	FILLED W\DEBRIS	
D-4065	424.88	E	421.63	9" MTL
		W	421.38	9" MTL
S-4146	430.80	N/E	426.00	4" MTL
		N	420.3	
		S	420.2	
			FILLED W\WATER	
S-4147	432.43	N	421.43	8"
		E	421.33	8"
		E	421.32	8"
		W	421.28	8"

PNV = PIPES NOT VISIBLE
NOTE: THE ABOVE INFORMATION REFLECT FIELD
MEASUREMENTS & OBSERVATIONS AND THEY MAY
DIFFER FROM PLANS BY OTHERS.(SEE GENERAL NOTES)

CAUTION:
IF THIS DRAWING IS A REDUCTION,
USE THE GRAPHIC SCALES.

1"=20'-0"
20 0 10 20 40

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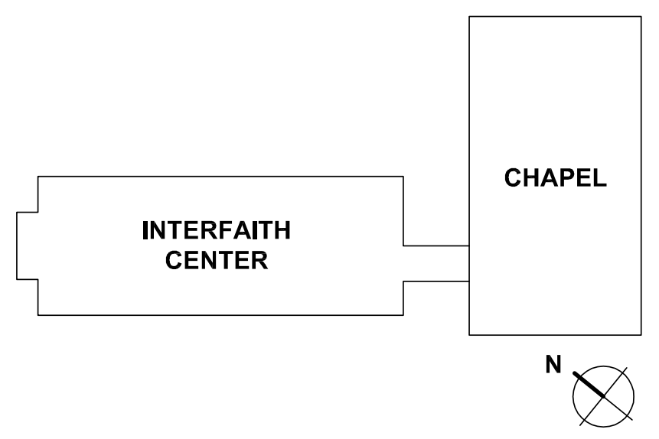
REVISIONS

REV. #	DESCRIPTION	DATE

KEY PLAN



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DRAWING INFORMATION

ISSUE DATE:	04/28/17
SCALE:	1" = 20'
JOB NO.:	21641.00
DRAWN BY:	M.L.H.

PROJECT DESIGN PHASE

50% CONSTRUCTION DOCUMENTS

DRAWING NAME

EXISTING CONDITIONS PLAN

DRAWING NUMBER

C001

STAPLE EDGE
STAPLE EDGE
STAPLE EDGE

Apr 28, 2017 - 10:35am User: mhudgins P:\2016\16013800\Drawings\07-Site\2016013800-C001-Ex Cond Plan.dwg

STAPLE EDGE

PLAN
SCALE: 1" = 20'

DEMOLITION NOTES:

D-1 SAWCUT AND REMOVE EXISTING CONCRETE SIDEWALK TO THE NEAREST JOINT.
D-2 REMOVE EXISTING TREES.
D-3 REMOVE EXISTING BLOCK RETAINING WALL.
D-4 REMOVE EXISTING TRANSFORMER.
D-5 SCULPTURE TO BE RELOCATED, CONTRACTOR TO REMOVE AND STORE.
D-6 SAWCUT AND REMOVE EXISTING PAVEMENT.
D-7 SAWCUT AND REMOVE EXISTING CONCRETE CURB.

DEMOLITION LEGEND:

☒	TREE REMOVAL
▨	TREE REMOVAL
▦	WALK REMOVAL
▧	PAVEMENT REMOVAL

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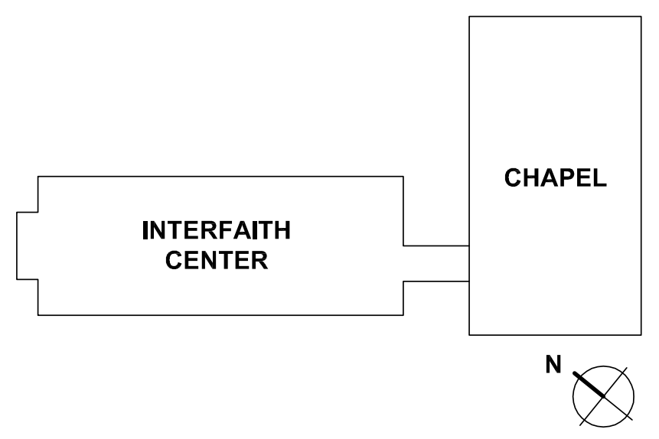

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50% CONSTRUCTION DOCUMENTS

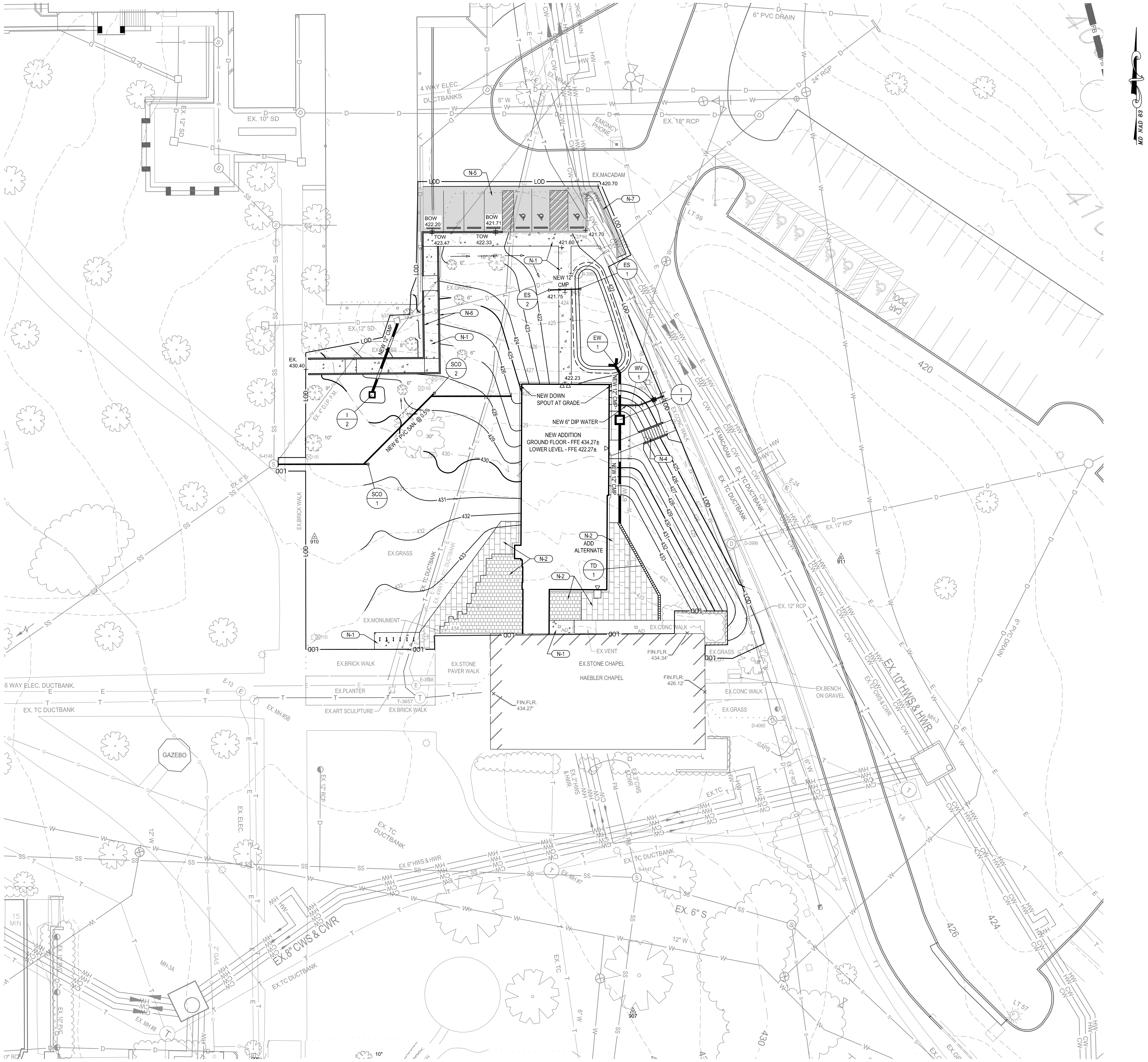
DRAWING NAME

DEMOLITION PLAN

DRAWING NUMBER

C101

STAPLE EDGE



PLAN
SCALE: 1" = 20'

CONSTRUCTION NOTES:

N-1	NEW CONCRETE SIDEWALK, SEE LANDSCAPE PLANS FOR DETAIL.
N-2	NEW PAVERS, SEE LANDSCAPE PLANS FOR DETAIL.
N-3	NEW RETAINING WALL, SEE ARCHITECTURAL PLANS FOR DETAIL.
N-4	NEW STAIRS, SEE LANDSCAPE PLANS FOR DETAIL.
N-5	NEW BITUMINOUS PAVING, SEE LANDSCAPE PLANS.
N-6	NEW WALL, SEE LANDSCAPE PLANS FOR DETAIL.
N-7	NEW 6" CONCRETE CURB, SEE LANDSCAPE PLANS FOR DETAIL.

CONSTRUCTION LEGEND:

☐	NEW CONCRETE WALK
▒	NEW BITUMINOUS PAVING
▦ ▦	NEW PAVERS
═	NEW CONCRETE CURB
—427— —430—	NEW CONTOURS
━	NEW STORM DRAIN
━	NEW SANITARY
▣	NEW INLET
⌄	NEW END WALL
═	NEW WATER

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1"=20'-0" 20 0 10 20 40

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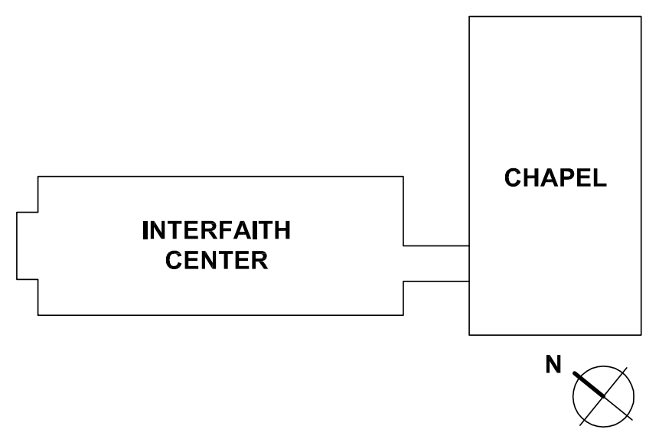

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DRAWN BY:	M.L.H.

PROJECT DESIGN PHASE

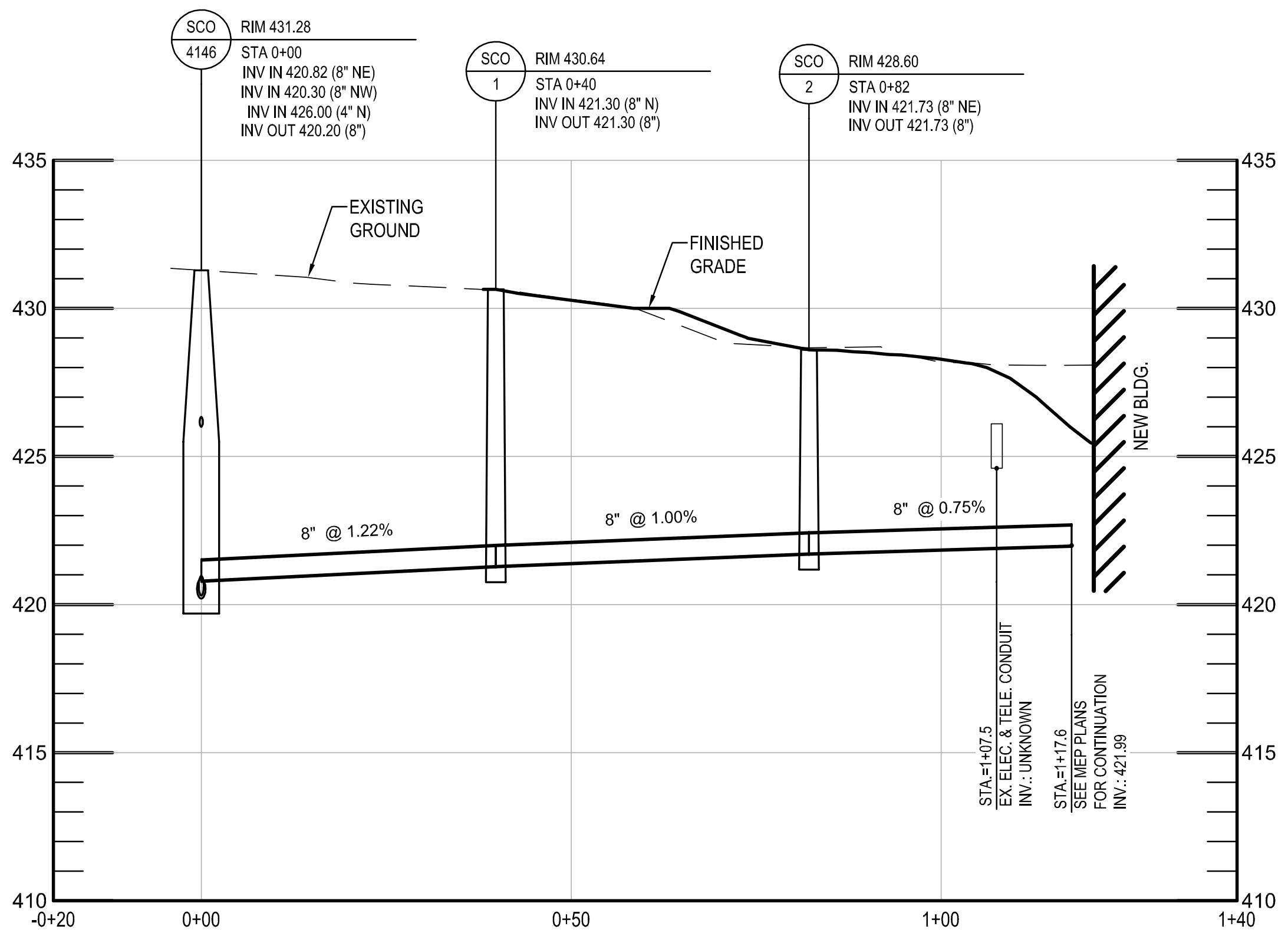
50% CONSTRUCTION DOCUMENTS

DRAWING NAME

SITE PLAN

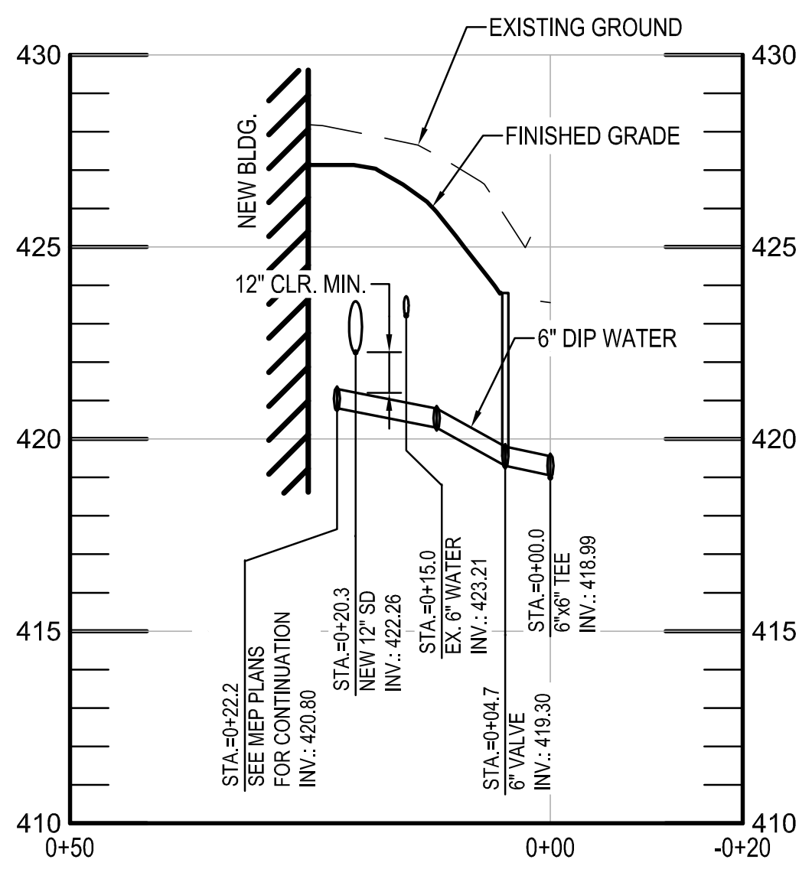
DRAWING NUMBER

C201



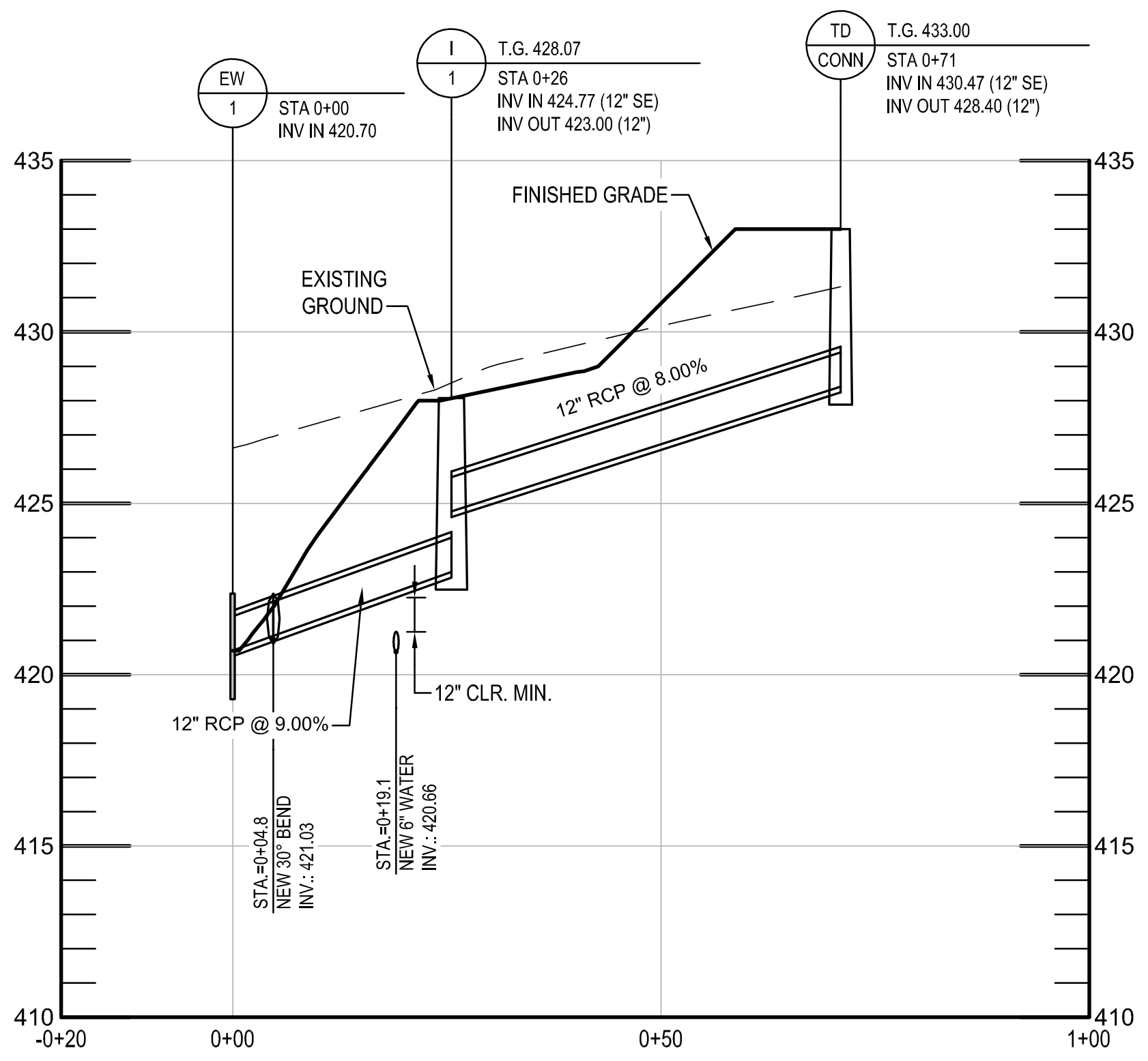
NEW SANITARY - EX S-4146 TO BLDG.

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



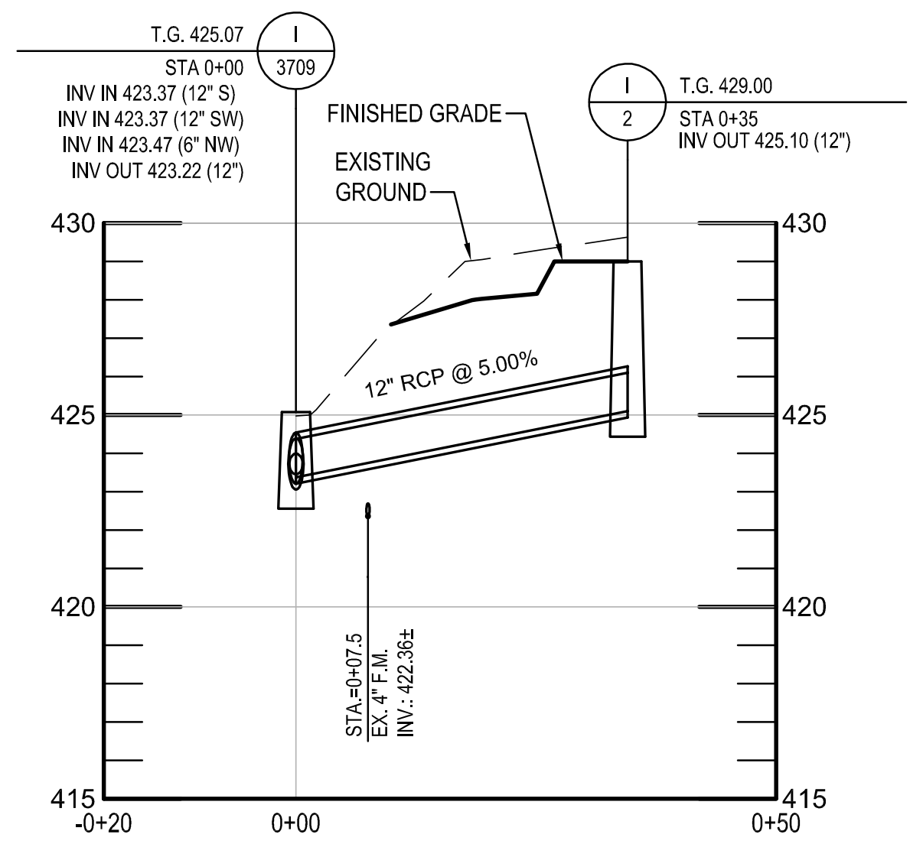
NEW WATER

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



NEW STORM DRAIN - EW-1 TO TD-1

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



NEW STORM DRAIN - I-3709 TO I-2

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

CAUTION:
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USE THE GRAPHIC SCALES.

1"=5'-0" 5 0 2.5 5 10

CAUTION:
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1"=20'-0" 20 0 10 20 40

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PROJECT INFORMATION

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REVISIONS

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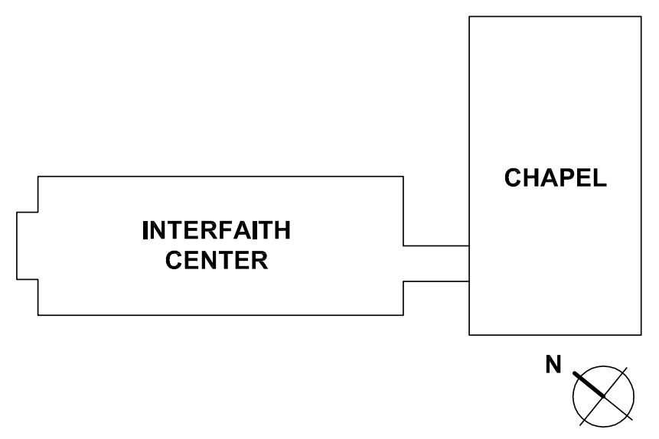
KEY PLAN



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DRAWING INFORMATION

ISSUE DATE:	04/28/17
SCALE:	AS SHOWN
JOB NO.:	21641.00
DRAWN BY:	M.L.H.

PROJECT DESIGN PHASE

50% CONSTRUCTION DOCUMENTS

DRAWING NAME

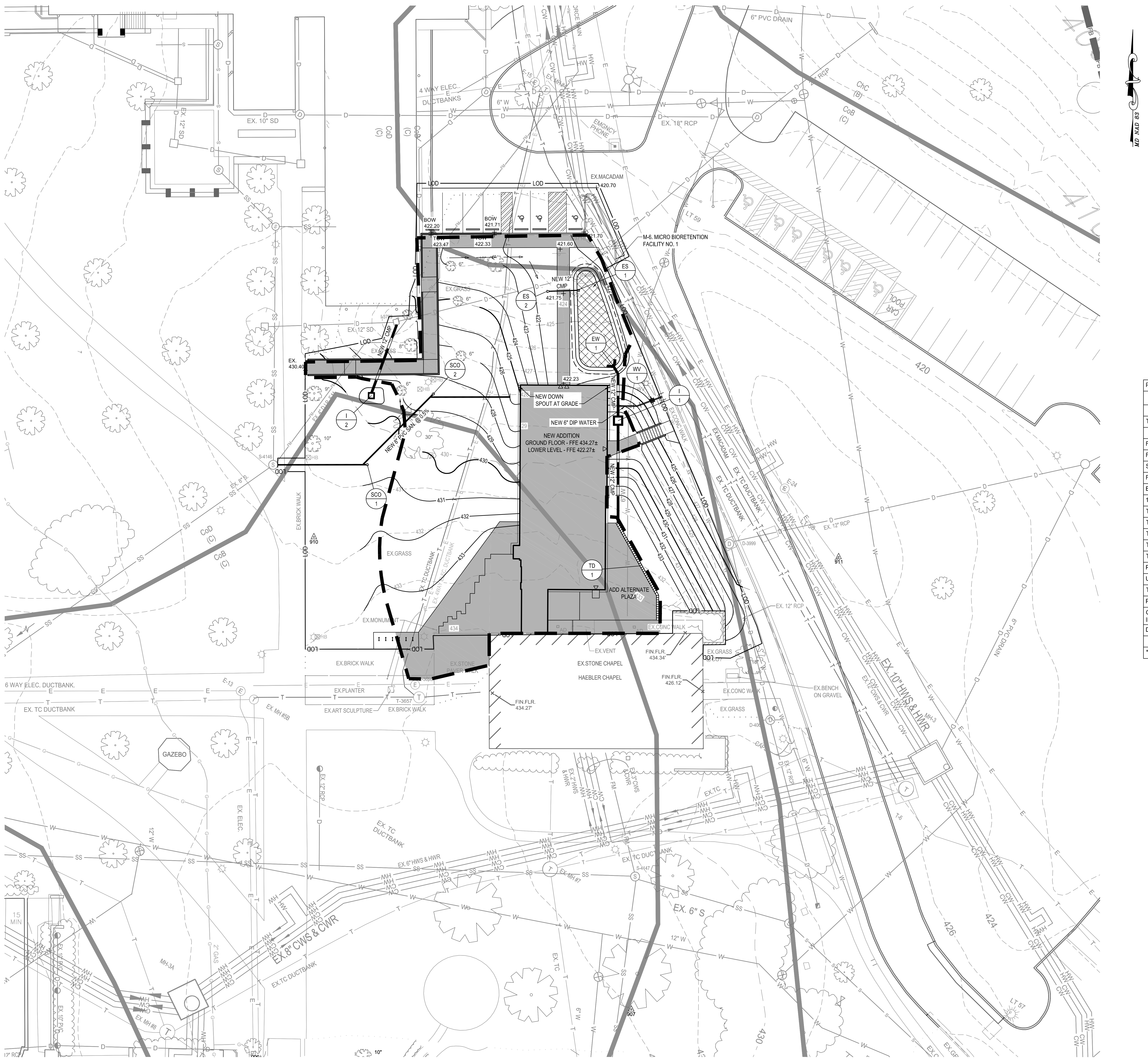
UTILITY PROFILES

DRAWING NUMBER

C202

STAPLE EDGE

Apr 28, 2017 - 9:18am User: mhudgins P:\2016\16013800\Drawings\07-Site\2016013800-C202-Utility Profiles.dwg



PLAN
SCALE: 1" = 20'

PROJECT NAME: INTERFAITH CENTER AT GOUCHER COLLEGE		
DESIGN / AS - BUILT DATA FOR BIORETENTION		
* TO BE COMPLETED BY THE CERTIFYING ENGINEER		
TYPE OF FACILITY: M-6, BIORETENTION	BMP ID: BIORETENTION (M-6), FACILITY #1	
FEATURE	**DESIGN**	***AS-BUILT**
FILTER BED DIMENSIONS (L x W) *	42' x 14'	
FILTER BED AREA (min)	570 S.F.	
SIDE SLOPES	3:1	
FILTER BED SURFACE ELEVATION (TOP OF MULCH)	420.7	
ESD STORAGE ELEVATION	421.2	
10-YEAR FREEBOARD	.5'	
TOP OF EMBANKMENT ELEVATION	421.7	
TOP OF EMBANKMENT WIDTH	2'	
THICKNESS OF FILTER MEDIA SHA BSM	24"	
THICKNESS OF SAND LAYER	4"	
THICKNESS OF PEA GRAVEL LAYER	4"	
PLACEMENT OF GEOTEXTILE	SIDES ONLY	
UNDERDRAIN PIPE MATERIAL/SIZE	4" PVC	
THICKNESS OF GRAVEL UNDERDRAIN	1'	
PLANTINGS	SEE LANDSCAPE PLANS	
OBSERVATION WELL WITH DEPTH TO BOTTOM INDICATED ON CAP	OBS #1 (3.67')	
DATE AS-BUILT ACCEPTED BY COUNTY:		
*FACILITY IS NOT RECTANGULAR. DIMENSIONS ARE APPROXIMATE		

LEGEND:

▨	SWM FACILITY
▩	IMPERVIOUS AREA
▬ ▬	DRAINAGE AREA

CAUTION:
IF THIS DRAWING IS A REDUCTION,
USE THE GRAPHIC SCALES.

1"=20'-0" 20 0 10 20 40

APPROVED: ______________________ CHIEF

STORMWATER ENGINEERING
BALTO. CO. DEPT. OF
ENVIRONMENTAL PROTECTION
AND SUSTAINABILITY

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STAPLE EDGE

STAPLE EDGE

STAPLE EDGE

Apr 28, 2017 - 10:24am User: mhudgins P:\2016\16013800\Drawings\07-Site\2016013800-C301-SWM Plan & Details.dwg

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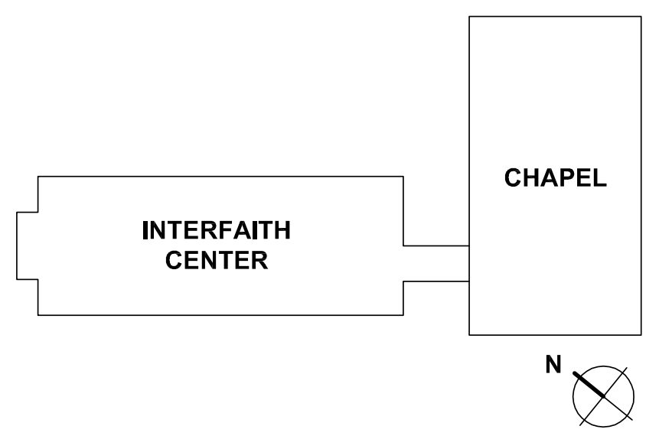

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PROJECT DESIGN PHASE

50% CONSTRUCTION DOCUMENTS

DRAWING NAME

STORMWATER MANAGEMENT PLAN

DRAWING NUMBER

C301

SPECIFICATIONS:

1. SEE CHART BELOW.
2. THE CONTRACTOR SHALL SUBMIT SOIL TEST RESULTS (1 PER 30 CY OF BSM) TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. PERFORM SOIL TESTS FOR BOTH IMPORTED SOIL AND RE-USED / AMENDED TOP SOIL. SOIL TEST AND RESULTS SHALL INCLUDE AT A MINIMUM; PHOSPHORUS, ORGANIC MATTER, SOLUBLE SALTS, AND TEXTURAL ANALYSIS.
3. MINIMIZE COMPACTION OF SUBGRADE SOILS IN MICRO BIORETENTION AREAS. CONTRACTOR SHALL TILL THE SUBGRADE SOILS TO A DEPTH OF 6" BELOW THE BOTTOM OF EACH FACILITY. WHEN BACKFILLING THE MICRO BIORETENTION FACILITY, PLACE SOIL IN LIFTS 12" TO 18". DO NOT USE HEAVY EQUIPMENT WITHIN THE MICRO BIORETENTION BASIN. HEAVY EQUIPMENT CAN BE USED AROUND THE PERIMETER OF THE BASIN TO SUPPLY SOILS AND SAND. GRADE MICRO BIORETENTION MATERIALS WITH LIGHT EQUIPMENT SUCH AS A COMPACT LOADER OR A DOZER/LOADER WITH MARSH TRACKS.
4. PLANT MATERIAL SHALL BE REPRESENTATIVE OF SPECIES AND CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1-2004.

MATERIALS SPECIFICATIONS FOR MICRO-BIORETENTION

MATERIAL	SPECIFICATION	SIZE	NOTES
PLANTINGS	SEE PLAN SHEET	N/A	PLANTINGS ARE SITE SPECIFIC
BSM	SHA BIORETENTION SOIL MIX (BSM) SECTION 920.01.05 ORGANIC CONTENT MIN. 5% BY DRY WEIGHT (ASTM D 2974)	N/A	MARYLAND STATE HIGHWAY ADMINISTRATION STANDARDS SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS DATED JULY 2008 INCLUDING AND ADDENDA THERETO. COPY TO BE KEPT ON-SITE
MULCH	SHREDDED HARDWOOD		AGED 6 MONTHS, MINIMUM; NO PINE OR WOOD CHIPS
PEA GRAVEL	ASTM-D-448	NO.8 OR NO.9 (1/8" TO 3/8")	
ORNAMENTAL STONE	WASHED COBBLES	STONE: 1" TO 3"	
GEOTEXTILE		N/A	NONWOVEN GEOTEXTILE TABLE H.1 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL
UNDERDRAIN GRAVEL	AASHTO M-43	NO.57, 6, OR 67 (3/8" TO 3/4")	
IMPERMEABLE LINER (IF REQUIRED)	ASTM-D-7176	30-MIL THICKNESS	LAYER TO BE ULTRA-VIOLET RESISTANT. A GEOTEXTILE FABRIC SHOULD BE USED TO PROTECT THE LINER FROM PUNCTURE.
UNDERDRAIN PIPING	F 758, TYPE PS 28 AASHTO M-278 AASHTO M-252	4" TO 6"	SLOTTED OR PERFORATED PIPE; SLOTTED PIPE SHALL HAVE A MINIMUM OPEN AREA OF 1.5 SQ.IN. / LINEAR FOOT WITH A MAXIMUM SLOT LENGTH OF 2" AND MAXIMUM SLOT WIDTH OF 1/8 INCH. PERFORATED PIPE SHALL BE WRAPPED WITH 1/4 INCH GALVANIZED HARDWARE CLOTH.
CAST-IN-PLACE CONCRETE (IF REQUIRED)	MSHA MIX. NO.3; $F'_c=3500$ PSI @ 28 DAYS, NORMAL WEIGHT, AIR-ENTRAINED; REINFORCING TO MEET ASTM-615-60	N/A	ON-SITE TESTING OF CAST-IN-PLACE CONCRETE REQUIRED: 28 DAY STRENGTH AND SLUMP TEST; ALL CONCRETE DESIGN (CAST-IN-PLACE OR PRE-CAST) NOT USING PREVIOUSLY APPROVED STATE OR LOCAL STANDARDS REQUIRES DESIGN DRAWINGS SEALED AND APPROVED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF MARYLAND - DESIGN TO INCLUDE MEETING ACI CODE 350.R/89; VERTICAL LOADING [H-10 OR H-20]; ALLOWABLE HORIZONTAL LOADING (BASED ON SOIL PRESSURES); AND ANALYSIS OF POTENTIAL CRACKING
COARSE SAND	AASHTO-M6 OR ASTM-C-33	0.02" TO 0.04"	SAND SUBSTITUTIONS SUCH AS DIABASE AND GRAYSTONE (AASHTO) #10 ARE NOT ACCEPTABLE. NO CALCIUM CARBONATED OR DOLOMITIC SAND SUBSTITUTIONS ARE ACCEPTABLE. NO "ROCK DUST" CAN BE USED FOR SAND
STABILIZATION MATTING	SHA SECTION 920.05		TYPE A, B, C OR D AS NOTED ON PLAN / SECTION / DETAILS MARYLAND STATE HIGHWAY ADMINISTRATION STANDARDS SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS DATED JULY 2008 INCLUDING AND ADDENDA THERETO. COPY TO BE KEPT ON-SITE.

MAINTENANCE SCHEDULE:

AFTER CONSTRUCTION COMPLETION AND ACCEPTANCE OF THE WORK, INSPECTION AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF GOUCHER COLLEGE.

STORMWATER MAINTENANCE SCHEDULE MICRO-BIORETENTION

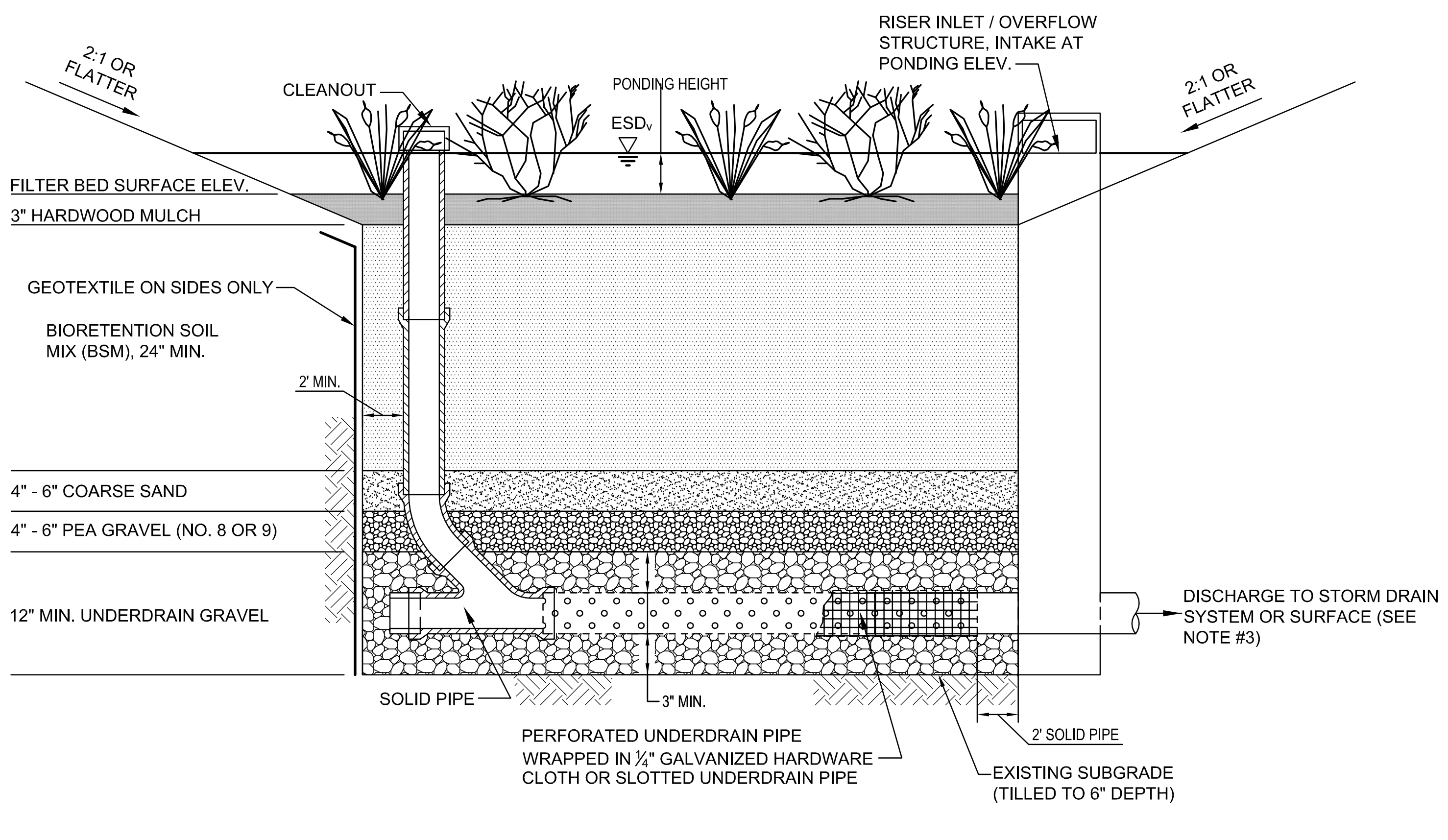
INSPECTION ITEM	FREQUENCY OF INSPECTION	INSPECTION REQUIREMENTS	REMEDIAL ACTION
BIORETENTION BASIN	SEASONALLY AND AFTER A MAJOR STORM		
DEWATERING	SEASONALLY AND AFTER A MAJOR STORM	FACILITY MUST DEWATER WITHIN 48 HOURS OF RAINFALL. NOTICEABLE ODORS, STAINED WATER ON THE FILTER SURFACE OR AT THE OUTLET, OR THE PRESENCE OF ALGAE OR AQUATIC VEGETATION ARE INDICATORS OF ANAEROBIC CONDITIONS, AND INADEQUATE DEWATERING OF THE FACILITY.	THE TOP THREE INCHES OF SOIL SHOULD BE REMOVED AND REPLACED WITH SOIL MATERIAL AS PER PLAN SPECIFICATIONS. FOLLOW UP INSPECTIONS MUST CONFIRM ADEQUATE DEWATERING. IF THE FACILITY DOES NOT FUNCTION AS INTENDED AFTER THE ABOVE ACTION OR DRAWDOWN EXCEEDS 72 HOURS, ALL MEDIA AND UNDERDRAIN SYSTEM NEED TO BE REMOVED AND REPLACED.
MULCH LAYER	SEASONALLY AND AFTER A MAJOR STORM	CHECK MULCH FOR ADEQUATE COVER, SEDIMENT ACCUMULATION, OR DISCOLORATION.	REMOVE AND REPLACE OLD MULCH AND EXCESS SEDIMENTS. PROVIDE ADEQUATE MULCH COVER ACCORDING TO APPROVED DESIGN.
ORNAMENTAL STONE	SEASONALLY AND AFTER A MAJOR STORM	CHECK STONE FOR ADEQUATE COVER, SEDIMENT ACCUMULATION, OR DISCOLORATION.	REMOVE AND REPLACE OLD STONE AND EXCESS SEDIMENTS. PROVIDE ADEQUATE STONE COVER ACCORDING TO APPROVED DESIGN.
VEGETATIVE SURFACES	MONTHLY		
PLANT COMPOSITION AND HEALTH	MONTHLY	COMPARE PLANT COMPOSITION WITH APPROVED PLANS. CHECK FOR INVASIVE SPECIES OR WEEDS. CHECK FOR DEAD OR DYING VEGETATION.	REMOVE AND REPLACE PLANTS IN ACCORDANCE WITH PLAN SPECIFICATIONS.
VEGETATIVE COVER AND EROSION	MONTHLY	CHECK FOR EVIDENCE OF EROSION, RUNOFF CHANNELIZING, OR BARE SPOTS.	RE-SEED OR RE-PLANT IN ACCORDANCE WITH APPROVED LANDSCAPING PLANS. RE-GRADING MAY BE REQUIRED WHEN CONCENTRATED FLOW CAUSES RILLS OR GULLYING THROUGH THE FACILITY.
DEBRIS AND TRASH CLEANOUT	MONTHLY	CHECK THAT THE FACILITY IS CLEAN OF TRASH AND DEBRIS. INLETS, OUTLETS, AND CONTRIBUTING AREAS AROUND THE FACILITY MUST BE CHECKED.	TRASH AND DEBRIS MUST BE DISPOSED OF IN AN ACCEPTABLE MANNER ACCORDING TO CURRENT REGULATIONS.
STRUCTURAL COMPONENTS	ANNUALLY	CHECK FOR EVIDENCE OF STRUCTURAL DETERIORATION, SPALLING, OR CRACKING. INLET AND OUTLET STRUCTURES MUST BE IN GOOD CONDITION.	REPAIR TO GOOD CONDITION ACCORDING TO SPECIFICATIONS ON THE APPROVED PLANS.
OUTLETS	SEASONALLY AND AFTER A MAJOR STORM	CHECK FOR EVIDENCE OF EROSION, RILLS, OR GULLYING.	STABILIZE ALL ERODED AREAS AND GRADE TO PROVIDE STABLE CONVEYANCE.
		RIPRAP OUTLET MUST BE MAINTAINED IN GOOD FUNCTIONAL CONDITION.	REPAIR ACCORDING TO APPROVED PLAN.
GRASS CHANNEL CONVEYANCE SYSTEMS	SEASONALLY AND AFTER A MAJOR STORM	CHECK FOR EROSION, FLOW BLOCKAGES, AND STABLE CONVEYANCE.	STABILIZE AND GRADE ACCORDING TO APPROVED PLAN.
OVERALL FUNCTION OF THE FACILITY	ANNUALLY	CHECK THAT ANY FLOW SPLITTERS ARE FUNCTIONING AS DESIGNED AND THAT BYPASS IS OPERATING AS DESIGNED.	REPAIRS MUST BE IN ACCORDANCE WITH APPROVED PLANS.

* IF FIELD CONDITIONS REQUIRE A MODIFICATION TO THE ORIGINAL APPROVAL IN ORDER TO ACHIEVE THE INTENDED DESIGN FUNCTION, CONTACT MDE'S SEDIMENT AND STORMWATER MANAGEMENT PLAN REVIEW DIVISION AT 410-537-3563 FOR REVIEW AND APPROVAL OF PROPOSED MODIFICATIONS.

INSPECTION:

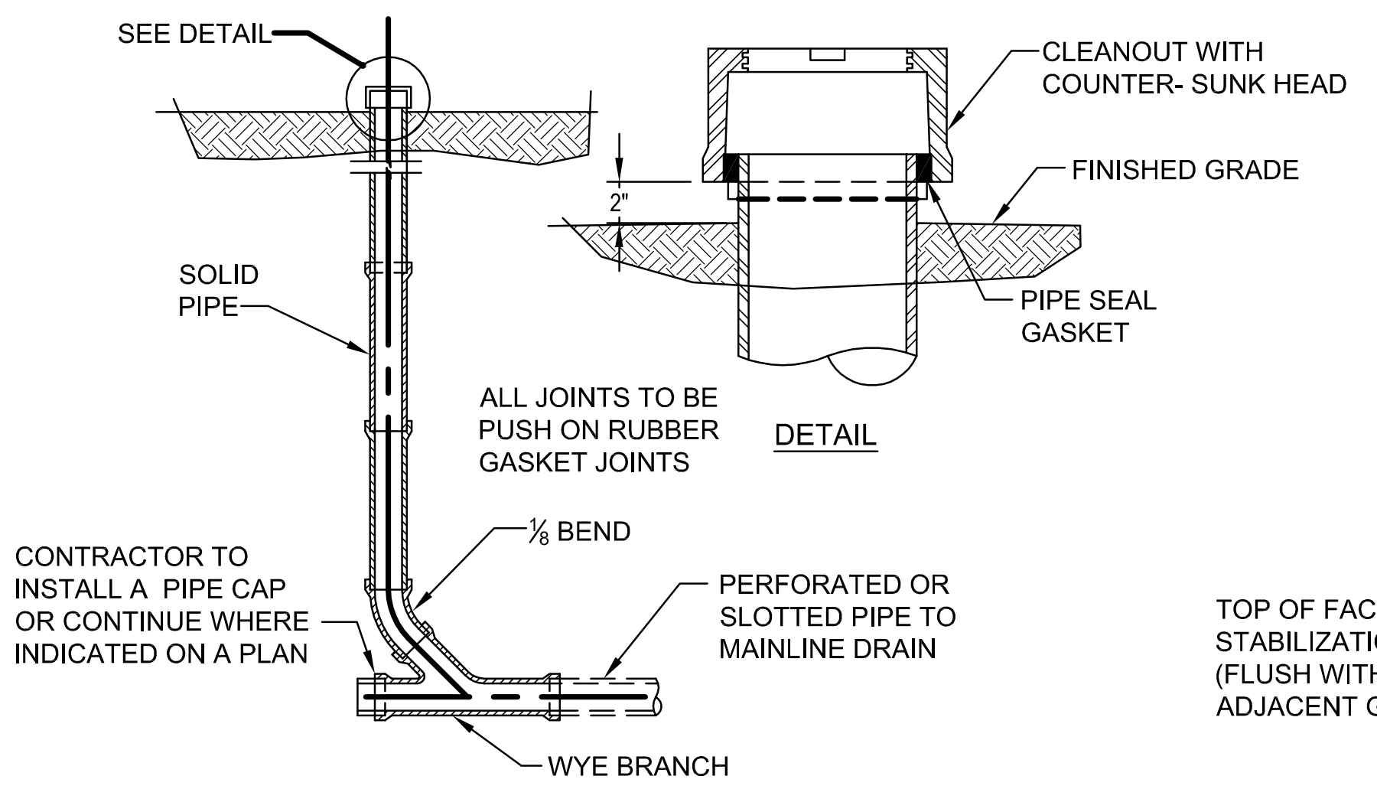
REGULAR INSPECTIONS SHALL BE MADE DURING THE FOLLOWING STAGES OF CONSTRUCTION:
CONTRACTOR SHALL NOTIFY THE CERTIFYING ENGINEER 48 HOURS PRIOR TO REQUIRED INSPECTION.

- DURING EXCAVATION TO SUBGRADE.
- DURING PLACEMENT OF GEOTEXTILE.
- DURING PLACEMENT AND BACKFILL OF UNDERDRAIN PIPE AND GRAVEL.
- DURING PLACEMENT OF BACKFILL AND BSM SOIL.
- DURING PLACEMENT OF MULCH.
- DURING PLACEMENT OF PLANTS.



NOTES:
1. A MINIMUM OF ONE OBSERVATION WELL MUST BE PROVIDED FOR EVERY 1000SF OF FILTER SURFACE AREA.
2. DO NOT INSTALL GEOTEXTILE ALONG THE TOP, BOTTOM, OR ANY HORIZONTAL LAYER.
3. DISCHARGE SHALL BE TO A STABLE, NON-EROSIVE OUTFALL.
4. UNDERDRAIN PIPE IS OPTIONAL IN HYDRAULIC SOIL GROUP A OR B, SEE PLAN.

SECTION FOR MICRO-BIORETENTION WITH RISER
NOT TO SCALE



CLEANOUT - DETAILS
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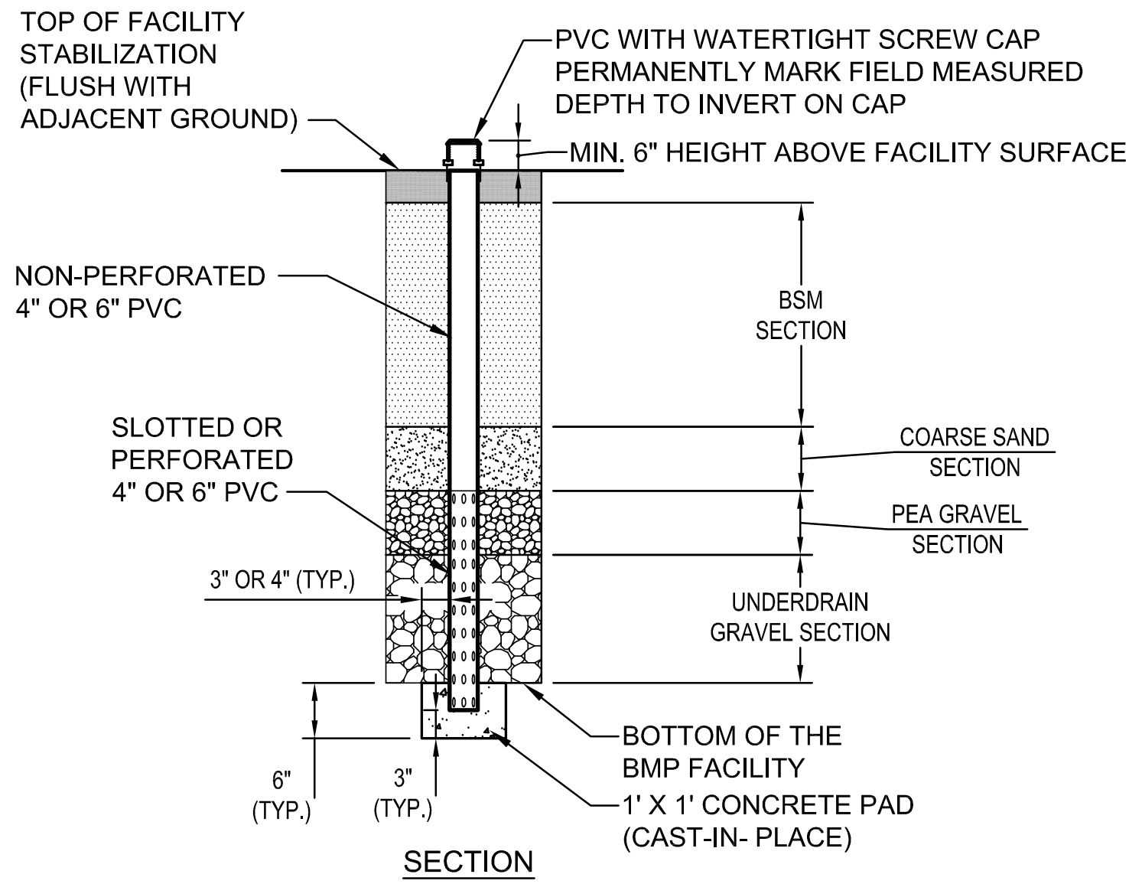

SECTION
OBSERVATION WELL
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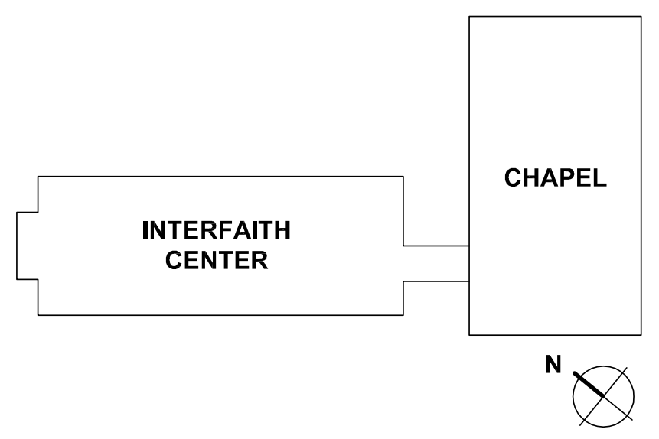

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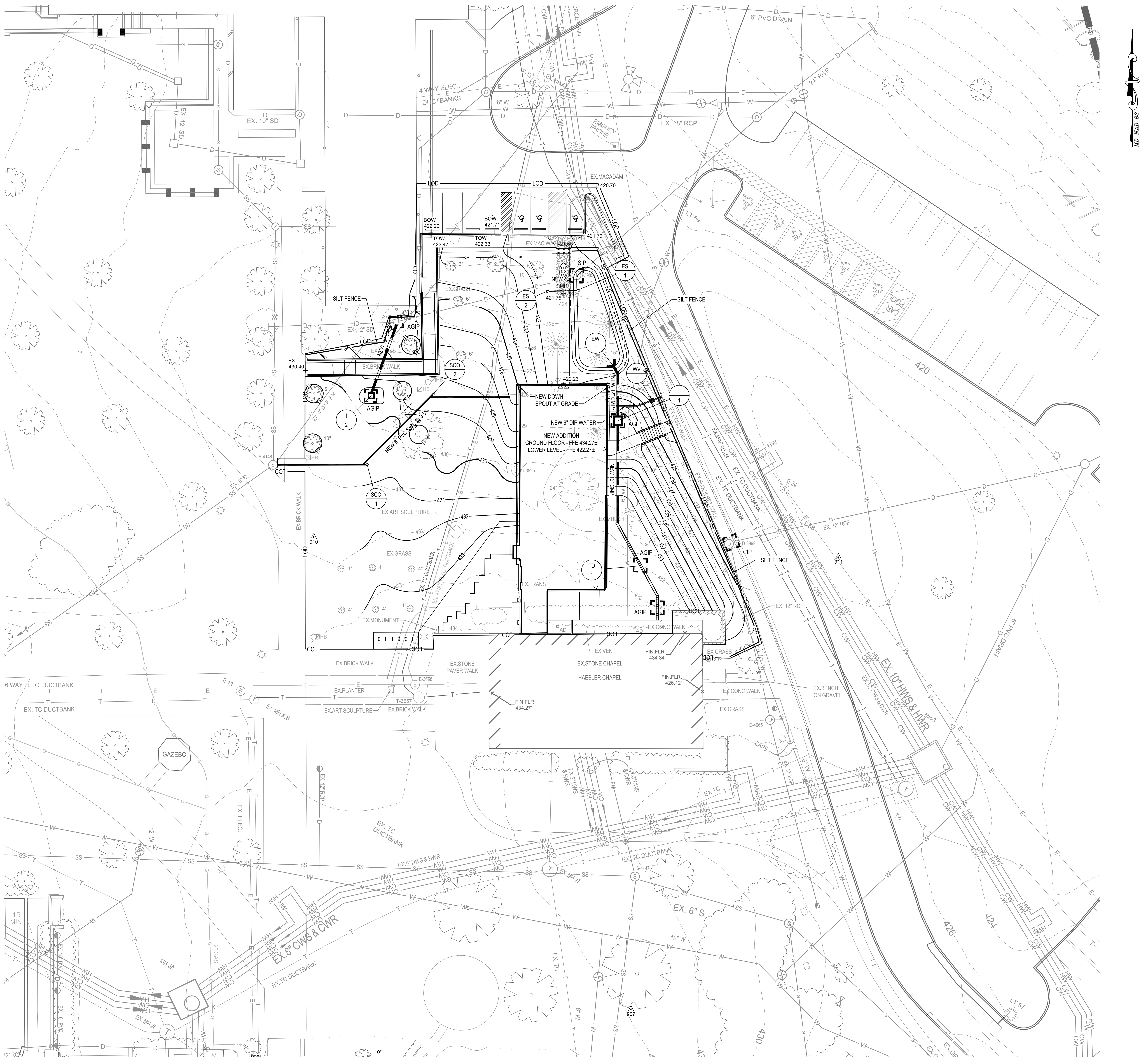

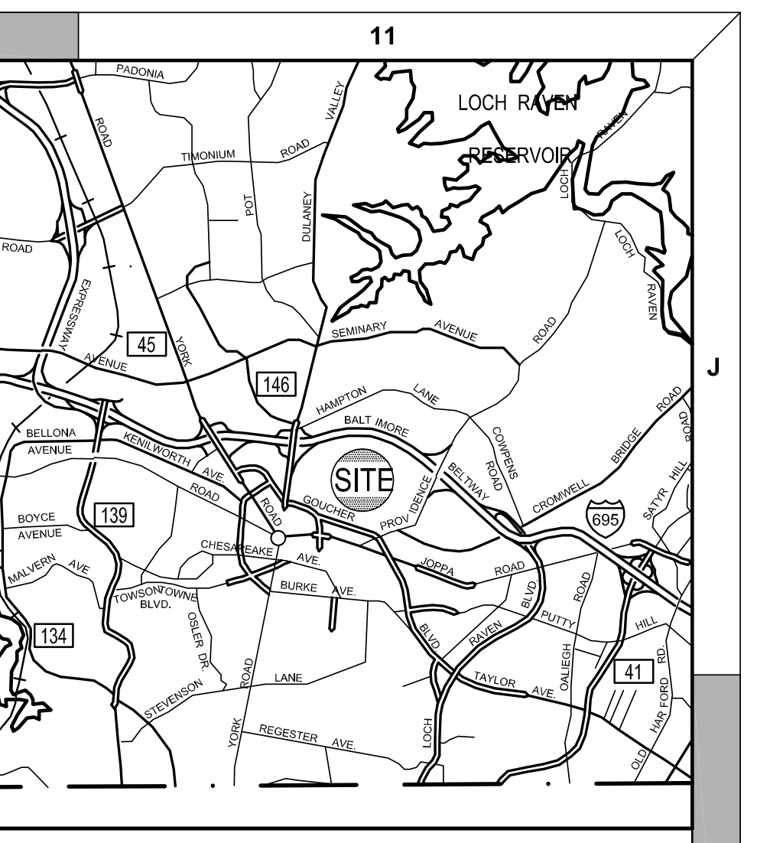

VICINITY MAP
SCALE: 1"=8,333'

W.B.C.M. SURVEY TRAVERSE CONTROL LISTING

PT#	NORTHING	EASTING	ELEV.	DESCRIPTION
900	634,857.58	1,427,613.23	426.05	REBAR & CAP
907	634,822.80	1,427,408.39	433.45	REBAR & CAP
910	634,931.90	1,427,180.57	431.77	REBAR & CAP
911	635,042.54	1,427,385.67	426.70	REBAR & CAP

DAILY STABILIZATION NOTE:

THIS NOTE SHOULD BE USED FOR MINIMAL AREAS WITHIN THE LIMITS OF DISTURBANCE THAT DO NOT DRAIN TO A SEDIMENT CONTROL MEASURE AND/OR WHERE THE INSTALLATION OF CONTROLS IS NOT FEASIBLE. (ROAD WIDENING, SIDEWALK INSTALLATION, ETC.).

CONTRACTOR SHALL ONLY DISTURB THAT AREA WHICH CAN BE COMPLETED AND STABILIZED BY THE END OF EACH WORKING DAY.
STABILIZATION SHALL BE AS FOLLOWS:
1.) FOR AREAS TO BE PAVED, THE APPLICATION OF STONE BASE.
2.) FOR AREAS TO BE VEGETATIVELY STABILIZED:
  A.) PERMANENT SEED AND SOIL STABILIZATION MATTING OR SOD FOR ALL STEEP SLOPES, CHANNELS OR SWALES.
  B.) PERMANENT SEED AND MULCH FOR ALL OTHER AREAS.

ANY AREAS WHICH CAN NOT BE STABILIZED BY THE END OF EACH WORKING DAY MUST HAVE SILT FENCE INSTALLED ON THE DOWN SLOPE SIDE.

MAINTENANCE NOTE:

CONTRACTOR SHALL INSPECT AND MAINTAIN ALL SEDIMENT CONTROL MEASURES AND DEVICES AFTER EVERY STORM EVENT. MAINTENANCE SHALL INCLUDE, BUT NOT LIMITED TO THE REMOVAL OF ALL ACCUMULATED SEDIMENT. GEOTEXTILE FABRIC SHALL BE REPLACED AS NEEDED TO ENSURE PROPER FUNCTION.

SLOPE AND CHANNEL STABILIZATION

CONTRACTOR TO IMMEDIATELY STABILIZE WITH PERMANENT SEED AND SOIL STABILIZATION MATTING ALL SLOPES 4:1 (25%) OR GREATER AND ALL CHANNELS WITH TEMPORARY SOIL STABILIZATION MATTING UPON FINAL GRADING.

BALTIMORE COUNTY SOIL CONSERVATION DISTRICT
APPROVED FOR SEDIMENT CONTROL

DISTRICT OFFICIAL

TECHNICAL REVIEW FOR THE DISTRICT BY:

IF A GRADING PERMIT HAS NOT BEEN OBTAINED WITHIN TWO YEARS OF THIS APPROVAL, THIS PLAN SHALL BE RE-SUBMITTED TO THE DISTRICT.

SEQUENCE OF OPERATIONS

1. NOTIFY BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS AND INSPECTIONS, SEDIMENT CONTROL, (410) 887-3226 AT LEAST 48 HOURS PRIOR TO BEGINNING WORK.
2. IF APPLICABLE, ORANGE HIGH VISIBILITY FENCE SHALL BE MANUALLY INSTALLED ALONG THE LIMIT OF DISTURBANCE, WHERE THE LIMIT IS WITHIN 50 FEET OF THE FOREST BUFFER / CONSERVATION EASEMENT. THIS SHALL BE COMPLETED BY AND INSPECTED AT THE PRE-CONSTRUCTION MEETING.
3. CLEAR AND GRUB FOR SEDIMENT & EROSION CONTROL MEASURES OR DEVICES ONLY.
4. INSTALL ALL SEDIMENT & EROSION CONTROL MEASURES AND DEVICES EXCEPT SCE AT PROPOSED PERMANENT ENTRANCE.
5. NOTIFY BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS AND INSPECTIONS, SEDIMENT CONTROL, UPON COMPLETION OF SAID INSTALLATION.
6. WITH WRITTEN APPROVAL OF BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS AND INSPECTIONS, SEDIMENT CONTROL AND THE SEDIMENT CONTROL INSPECTOR BEGIN EARTH WORK AS SEQUENCED.
7. GRADE AND PREPARE SITE FOR BUILDING FOUNDATION.
8. BEGIN CONSTRUCTION OF BUILDING AND INSTALL UTILITIES.
9. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREAS BEGIN GRADING AND CONSTRUCTION OF FACILITIES AS SHOWN ON THE APPROVED SWM SHEETS.
10. UPON STABILIZATION OF THE SITE WITH ESTABLISHED VEGETATION AND WITH WRITTEN PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL MEASURES AND STABILIZE THOSE AREAS DISTURBED BY THIS PROCESS.

SEDIMENT CONTROL LEGEND

STABILIZED CONSTRUCTION ENTRANCE	SCE
LIMIT OF DISTURBANCE	—— LOD ——
SILT FENCE	—— SF ——
TREE PROTECTION	—— TP ——
AT GRADE INLET PROTECTION	⬚ AGIP
STANDARD INLET PROTECTION	⬚ SIP
CURB INLET PROTECTION	⬚ CIP
ROCK OUTFALL PROTECTION	▨

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USE THE GRAPHIC SCALES.

1"=20'-0" 20 0 10 20 40

NOTE TO CONTRACTOR: SEDIMENT AND EROSION CONTROL SHALL BE STRICTLY ENFORCED.

COORDINATES SHOWN HEREON ARE REFERRED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM, NAD 83 (1991).

ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

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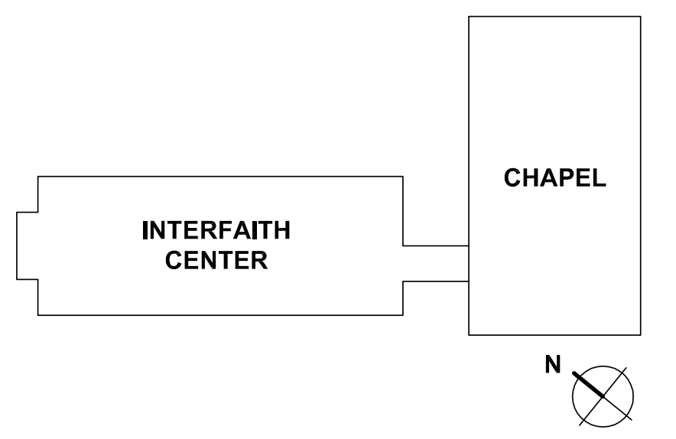
REVISIONS

REV. #	DESCRIPTION	DATE

KEY PLAN



AYERS
SAINT
GROSS
ARCHITECTS + PLANNERS

NOT FOR CONSTRUCTION

DRAWING INFORMATION	
ISSUE DATE:	04/28/17
SCALE:	1" = 20'
JOB NO.:	21641.00
DRAWN BY:	M.L.H.

PROJECT DESIGN PHASE

50% CONSTRUCTION DOCUMENTS

DRAWING NAME

EROSION AND SEDIMENT CONTROL PLAN

DRAWING NUMBER

C401

SEEDING AND MULCHING

A. SEEDING
  1. SPECIFICATIONS
    a. ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. ALL SEED MUST BE SUBJECT TO RE_TESTING BY A RECOGNIZED SEED LABORATORY. ALL SEED USED MUST HAVE BEEN TESTED WITHIN THE 6 MONTHS IMMEDIATELY PRECEDING THE DATE OF SOWING SUCH MATERIAL ON ANY PROJECT. REFER TO TABLE B.4 REGARDING THE QUALITY OF SEED. SEED TAGS MUST BE AVAILABLE UPON REQUEST TO THE INSPECTOR TO VERIFY TYPE AND RATE OF SEED USED.
    b. MULCH ALONE MAY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES ONLY IF THE GROUND IS FROZEN. THE APPROPRIATE SEEDING MIXTURE MUST BE APPLIED WHEN THE GROUND THAWS.
    c. INOCULANTS: THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES MUST BE A PURE CULTURE OF NITROGEN FIXING BACTERIA PREPARED SPECIFICALLY FOR THE SPECIES. INOCULANTS MUST NOT BE USED LATER THAN THE DATE INDICATED ON THE CONTAINER. ADD FRESH INOCULANTS AS DIRECTED ON THE PACKAGE. USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING. NOTE: IT IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS POSSIBLE UNTIL USED. TEMPERATURES ABOVE 75 TO 80 DEGREES FAHRENHEIT CAN WEAKEN BACTERIA AND MAKE THE INOCULANT LESS EFFECTIVE.
    d. SOD OR SEED MUST BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.
  2. APPLICATION
    a. DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS.
    i. INCORPORATE SEED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON TEMPORARY SEEDING TABLE B.1, PERMANENT SEEDING TABLE B.3, OR SITE-SPECIFIC SEEDING SUMMARIES.
    ii. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION. ROLL THE SEEDED AREA WITH A WEIGHTED ROLLER TO PROVIDE GOOD SEED TO SOIL CONTACT.
    b. DRILL OR CULTIPACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL.
    i. CULTIPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A FASHION AS TO PROVIDE AT LEAST 1/4 INCH OF SOIL COVERING. SEEDBED MUST BE FIRM AFTER PLANTING.
    ii. APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION.
    c. HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER).
    i. IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES SHOULD NOT EXCEED THE FOLLOWING: NITROGEN, 100 POUNDS PER ACRE TOTAL OF SOLUBLE NITROGEN; P2O5 (PHOSPHOROUS), 200 POUNDS PER ACRE; K2O (POTASSIUM), 200 POUNDS PER ACRE.
    ii. LIME: USE ONLY GROUND AGRICULTURAL LIMESTONE (UP TO 3 TONS PER ACRE MAY BE APPLIED BY HYDROSEEDING). NORMALLY, NOT MORE THAN 2 TONS ARE APPLIED BY HYDROSEEDING AT ANY ONE TIME. DO NOT USE BURNT OR HYDRATED LIME WHEN HYDROSEEDING.
    iii. MIX SEED AND FERTILIZER ON SITE AND SEED IMMEDIATELY AND WITHOUT INTERRUPTION.
    iv. WHEN HYDROSEEDING DO NOT INCORPORATE SEED INTO THE SOIL.

B. MULCHING
  1. MULCH MATERIALS (IN ORDER OF PREFERENCE)
    a. STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, RYE, OAT, OR BARLEY AND REASONABLY BRIGHT IN COLOR. STRAW IS TO BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED IN THE MARYLAND SEED LAW AND NOT MUSTY, MOLDY, CAKED, DECAYED, OR EXCESSIVELY DUSTY. **NOTE: USE ONLY STERILE STRAW MULCH IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED.**
    b. WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE.
    i. WCFM IS TO BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AN APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD SLURRY.
    ii. WCFM, INCLUDING DYE, MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING FACTORS.
    iii. WCFM MATERIALS ARE TO BE MANUFACTURED AND PROCESSED IN SUCH A MANNER THAT THE WOOD CELLULOSE FIBER MULCH WILL REMAIN IN UNIFORM SUSPENSION IN WATER UNDER AGITATION AND WILL BLEND WITH SEED, FERTILIZER AND OTHER ADDITIVES TO FORM A HOMOGENEOUS SLURRY. THE MULCH MATERIAL MUST FORM A BLOTTER-LIKE GROUND COVER, ON APPLICATION, HAVING MOISTURE ABSORPTION AND PERCOLATION PROPERTIES AND MUST COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDLINGS.
    iv. WCFM MATERIAL MUST NOT CONTAIN ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THAT WILL BE PHYTO-TOXIC.
    v. WCFM MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS: FIBER LENGTH OF APPROXIMATELY 10 MILLIMETERS, DIAMETER APPROXIMATELY 1 MILLIMETER, PH RANGE OF 4.0 TO 8.5, ASH CONTENT OF 1.6 PERCENT MAXIMUM AND WATER HOLDING CAPACITY OF 90 PERCENT MINIMUM.
  2. APPLICATION:
    a. APPLY MULCH TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING.
    b. WHEN STRAW MULCH IS USED, SPREAD IT OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS PER ACRE TO A UNIFORM LOOSE DEPTH OF 1 TO 2 INCHES. APPLY MULCH TO ACHIEVE A UNIFORM DISTRIBUTION AND DEPTH SO THAT THE SOIL SURFACE IS NOT EXPOSED. WHEN USING A MULCH ANCHORING TOOL, INCREASE THE APPLICATION RATE TO 2.5 TONS PER ACRE.
    c. WOOD CELLULOSE FIBER USED AS MULCH MUST BE APPLIED AT A NET DRY WEIGHT OF 1500 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER TO ATTAIN A MIXTURE WITH A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
  3. ANCHORING:
    a. PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS (LISTED BY PREFERENCE), DEPENDING UPON THE SIZE OF THE AREA AND EROSION HAZARD:
    i. A MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE A MINIMUM OF 2 INCHES. THIS PRACTICE IS MOST EFFECTIVE ON LARGE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND, THIS PRACTICE SHOULD BE USED ON THE CONTOUR IF POSSIBLE.
    ii. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER AT A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.
    iii. SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRO-TACK), DCA-70, PETROSET, TERRA TAX II, TERRA TACK AR OR OTHER APPROVED EQUAL MAY BE USED. FOLLOW APPLICATION RATES AS SPECIFIED BY THE MANUFACTURER. APPLICATION OF LIQUID BINDERS NEEDS TO BE HEAVIER AT THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF BANKS. USE OF ASPHALT BINDERS IS STRICTLY **PROHIBITED.**
    iv. LIGHTWEIGHT PLASTIC NETTING MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER RECOMMENDATIONS. NETTING IS USUALLY AVAILABLE IN ROLLS 4 TO 15 FEET WIDE AND 300 TO 3,000 FEET LONG.

TEMPORARY STABILIZATION

CONDITIONS WHERE PRACTICE APPLIES
EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS. FOR LONGER DURATION OF TIME, PERMANENT STABILIZATION PRACTICES ARE REQUIRED.

CRITERIA
1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3), AND ENTER THEM IN THE TEMPORARY SEEDING SUMMARY BELOW ALONG WITH APPLICATION RATES, SEEDING DATES AND SEEDING DEPTHS. IF THIS SUMMARY IS NOT PUT ON THE PLAN AND COMPLETED, THAN TABLE B.1 PLUS FERTILIZER AND LIME RATES MUST BE PUT ON THE PLAN.
2. FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTING AGENCY. SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY SEEDING.
3. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-3.A.1.b AND MAINTAIN UNTIL THE NEXT SEEDING SEASON.

TEMPORARY SEEDING SUMMARY

Seed Mixture (Hardiness Zone 7a)				Fertilizer Rate 10-20-20	Lime Rate
Species	Application Rate	Seeding Dates	Depths		
ANNUAL RYEGRASS	40 lb/ac	2/15 - 4/30 8/15 - 11/30	1/2"	436 lb/ac (10 lb/ 1000 sf)	2 tons/ac (100 lb/ 1000 sf)
FOXTAIL MILLET	30 lb/ac	5/1 - 8/14	1/2"		

PERMANENT STABILIZATION

CONDITIONS WHERE PRACTICE APPLIES
EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE.

A. SEED MIXTURES
  1. GENERAL USE
    a. SEE PERMANENT SEEDING SUMMARY.
    b. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA_NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 342 _ CRITICAL AREA PLANTING.
    c. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY.
    d. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3 ½ POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY .
  2. TURFGRASS MIXTURES
    a. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE.
    b. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.
    i. KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
    ii. KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT. CERTIFIED PERENNIAL RYEGRASS CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT.
    iii. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT PRONE AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL SUN TO MEDIUM SHADE. RECOMMENDED MIXTURE INCLUDES; CERTIFIED TALL FESCUE CULTIVARS 95 TO 100 PERCENT, CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 0 TO 5 PERCENT. SEEDING RATE: 5 TO 8 POUNDS PER 1000 SQUARE FEET. ONE OR MORE CULTIVARS MAY BE BLENDED.
    iv. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED TURF AREA. MIXTURE INCLUDES; CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 30 TO 40 PERCENT AND CERTIFIED FINE FESCUE AND 60 TO 70 PERCENT. SEEDING RATE: 1½ TO 3 POUNDS PER 1000 SQUARE FEET.

NOTES:

TURFGRASS VARIETIES SHOULD BE SELECTED FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MEMO #77, "TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND"

CHOOSE CERTIFIED MATERIAL. CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR PURITY. THE CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF AGRICULTURE, TURF AND SEED SECTION, PROVIDES A RELIABLE MEANS OF CONSUMER PROTECTION AND ASSURES A PURE GENETIC LINE

    c. IDEAL TIMES OF SEEDING
      WESTERN MD: MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDINESS ZONES: 5B, 6A)
      CENTRAL MD: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONE: 6B)
      SOUTHERN MD, EASTERN SHORE: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONES: 7A, 7B)
    d. TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2 TO 4 INCHES, LEVEL AND RAKE THE AREAS TO PREPARE A PROPER SEEDBED. REMOVE STONES AND DEBRIS OVER 1½ INCHES IN DIAMETER. THE RESULTING SEEDBED MUST BE IN SUCH CONDITION THAT FUTURE MOWING OF GRASSES WILL POSE NO DIFFICULTY.
    e. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH (½ TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASONS, OR ON ADVERSE SITES.

PERMANENT SEEDING SUMMARY

Seed Mixture (Hardiness Zone 7a)					Fertilizer Rate (10-20-20)			Lime Rate
Mix No.	Species	Application Rate	*Seeding Dates	Depths	N	P205	K20	
6	TALL FESCUE PERENNIAL RYE BIRDSFOOT TREFOIL	40 lb/ac. 25 lb/ac. 8 lb/ac.	2/15 - 4/30 8/15 - 10/31	1/4"-1/2"	45 lb/ac. (1 lb/ 1000 sf)	90 lb/ac. (2.0 lb/ 1000 sf)	90 lb/ac. (2.0 lb/ 1000 sf)	2 tons/ac (100 lb/ 1000 sf)
7	CREEPING RED FESCUE KENTUCKY BLUEGRASS	60 lb/ac. 15 lb/ac.						
11	CREEPING RED FESCUE CHEWINGS FESCUE KENTUCKY BLUEGRASS ROUGH BLUEGRASS	30 lb/ac. 30 lb/ac. 20 lb/ac. 15 lb/ac.						

* FOR THE PERIOD 5/1 - 8/14 ADD FOXTAIL, OR PEARL MILLET TO THE PERMANENT SEED MIX. DO NOT EXCEED MORE THAN 5% (BY WEIGHT) OF THE OVERALL PERMANENT SEEDING MIX.

B. SOD: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER).
  1. GENERAL SPECIFICATIONS
    a. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR.
    b. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF ¾ INCH, PLUS OR MINUS ¼ INCH, AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP GROWTH AND THATCH. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.
    c. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.
    d. SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.
    e. SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION.
  2. SOD INSTALLATION
    a. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD.
    b. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND TIGHTLY WEDGED AGAINST EACH OTHER. STAGGER LATERAL JOINTS TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.
    c. WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH STAGGERING JOINTS. ROLL AND TAMP, PEG OR OTHERWISE SECURE THE SOD TO PREVENT SLIPPAGE ON SLOPES. ENSURE SOLID CONTACT EXISTS BETWEEN SOD ROOTS AND THE UNDERLYING SOIL SURFACE.
    d. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. COMPLETE THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD WITHIN EIGHT HOURS.
  3. SOD MAINTENANCE
    a. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. WATER SOD DURING THE HEAT OF THE DAY TO PREVENT WILTING.
    b. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT.
    c. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED. NO MORE THAN ⅓ OF THE GRASS LEAF MUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN GRASS HEIGHT AT LEAST 3 INCHES UNLESS OTHERWISE SPECIFIED.

SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

A. SOIL PREPARATION

1. TEMPORARY STABILIZATION
  a. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.
  b. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.
  c. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
2. PERMANENT STABILIZATION
  a. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE:
   I. SOIL PH BETWEEN 6.0 AND 7.0.
   II. SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM).
   III. SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER THAN 30 PERCENT SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION: IF LOVEGRASS WILL BE PLANTED, THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE.
   IV. SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.
   V. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.
  b. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE CONDITIONS.
  c. GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN, THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES.
  d. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST.
  e. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. RAKE LAWN AREAS TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION. TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDBED LOOSENING MAY BE UNNECESSARY ON NEWLY DISTURBED AREAS.

B. TOPSOILING

1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.
2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS.
3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
  a. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
  b. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
  c. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
  d. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.
4. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN.
5. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA:
  a. TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1½ INCHES IN DIAMETER.
  b. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
  c. TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.
6. TOPSOIL APPLICATION
  a. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL.
  b. UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
  c. TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.

C. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)

1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES.
2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTY OF THE PRODUCER.
3. LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.
4. LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS.
5. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE(200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

STANDARD EROSION CONTROL NOTES

GENERAL NOTES (FOR EROSION AND SEDIMENT CONTROL PLANS ONLY)

1. REFER TO *"2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL"* FOR STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE SPECIFIED HEREIN.

2. WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, MINOR FIELD ADJUSTMENTS CAN AND WILL BE MADE TO INSURE THE CONTROL OF ANY SEDIMENT. CHANGES IN SEDIMENT CONTROL PRACTICES REQUIRE PRIOR APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE BALTIMORE COUNTY SOIL CONSERVATION DISTRICT.

3. AT THE END OF EACH WORKING DAY, ALL SEDIMENT CONTROL PRACTICES WILL BE INSPECTED AND LEFT IN OPERATIONAL CONDITION.

4. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTRUBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN: a.) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN THREE HORIZONTAL TO ONE VERTICAL (3:1), AND b.) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

5. ANY CHANGES TO THE GRADING PROPOSED ON THIS PLAN REQUIRES RE-SUBMISSION TO BALTIMORE COUNTY SOIL CONSERVATION DISTRICT APPROVAL.

6. DUST CONTROL WILL BE PROVIDED FOR ALL DISTURBED AREAS. REFER TO *"2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL"*, PG. H.22, FOR ACCEPTABLE METHODS SPECIFICATIONS FOR DUST CONTROL.

7. ANY VARIATIONS FROM THE SEQUENCE OF OPERATIONS STATED ON THIS PLAN REQUIRES THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR AND THE BALTIMORE COUNTY SOIL CONSERVATION DISTRICT PRIOR TO THE INITIATION OF THE CHANGE.

8. EXCESS CUT OR BORROW MATERIAL SHALL GO TO, OR COME FROM, RESPECTIVELY, A SITE WITH AN OPEN GRADING PERMIT AND APPROVED SEDIMENT CONTROL PLAN.

9. THE FOLLOWING ITEM MAY BE USED AS APPLICABLE: REFER TO *"MARYLAND GUIDELINES TO WATERWAY CONSTRUCTION"* BY THE WATER MANAGEMENT ADMINISTRATION OF THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, REVISED NOVEMBER 2000, FOR STANDARD DETAILS AND DETAILED SPECIFICATIONS OF EACH PRACTICE HEREIN FOR WATERWAY CONSTRUCTION.

10. PUMPING SEDIMENT-LADEN WATER INTO WATERS OF THE STATE IS STRICTLY PROHIBITED. ANY PORTABLE DEWATERING DEVICE MUST BE LOCATED WITHIN THE LIMIT OF DISTURBANCE.

11. SITE INFORMATION:

TOTAL AREA OF SITE	297.508 ACRES
TOTAL LIMITS OF DISTURBANCE	X S.F. / X ACRES
TOTAL CUT	X CUBIC YARDS*
TOTAL FILL	X CUBIC YARDS*
NET FILL	X CUBIC YARDS*

* THE CUT/FILL CALCULATIONS SHOWN ARE FOR SEDIMENT CONTROL PURPOSES ONLY THE CONTRACTOR SHALL DEVELOP HIS/HER OWN QUANTITIES FOR BIDDING PURPOSES.

SEQUENCE OF OPERATIONS

1. NOTIFY BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS AND INSPECTIONS, SEDIMENT CONTROL, (410) 887-3226 AT LEAST 48 HOURS PRIOR TO BEGINNING WORK.
2. IF APPLICABLE, ORANGE HIGH VISIBILITY FENCE SHALL BE MANUALLY INSTALLED ALONG THE LIMITS OF DISTURBANCE, WHERE THE LIMIT IS WITHIN 50 FEET OF THE FOREST BUFFER / CONSERVATION EASEMENT. THIS SHALL BE COMPLETED BY AND INSPECTED.

3. CLEAR AND GRUB AND INSTALL FOR SEDIMENT & EROSION CONTROL MEASURES ONLY. CONTROLS INCLUDE STABILIZED CONSTRUCTION ENTRANCE, TREE PROTECTION, SILT FENCE, SUPER SILT FENCE, SILT FENCE CHECK DAM AND INLET PROTECTION FOR EXISTING INLETS.

4. NOTIFY BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS AND INSPECTIONS, SEDIMENT CONTROL, UPON COMPLETION OF SAID INSTALLATION.

5. WITH THE APPROVAL OF BALTIMORE COUNTY DEPARTMENT OF PERMITS, APPROVALS AND INSPECTIONS, SEDIMENT CONTROL, AND THE SEDIMENT CONTROL INSPECTOR, CLEAR AND GRUB AND GRADE AS NECESSARY FOR UTILITY CONSTRUCTION (SANITARY, STORM WATER, ELECTRICAL, TELEPHONE, CHILLED WATER) AND NEW BUILDING ADDITIONS. ROUGH GRADE FOR STORM WATER MANAGEMENT FACILITIES, *DO NOT* EXCAVATE MORE THAN 1 FOOT ABOVE SUB-GRADE ELEVATION. SEE PLAN FOR AREAS REQUIRING DAILY STABILIZATION. SEE MAINTENANCE NOTE.

6. BEGIN CONSTRUCTION OF BUILDING ADDITIONS AND RETAINING WALLS.

7. CONSTRUCT NEW UTILITIES. INSTALL INLET PROTECTION AS SOON AS INLETS ARE CONSTRICTED.

8. CONSTRUCT CONCRETE PADS, NEW STAIRS AND WALKS.

9. STABILIZE ALL CONTRIBUTING AREA TO SEDIMENT CONTROLS.

10. WITH NOAA FORECASTED 3 DAY DRY PERIOD, EXCAVATE FOR SWM FACILITY (IES) AND CONSTRUCT PER STORM WATER MANAGEMENT DETAILS ON SHEET C401 & C402. INSTALL FINAL PLANTINGS. STABILIZE AREA AROUND FACILITIES WITH SOD OR SOIL STABILIZATION MATTING.

11. UPON STABILIZATION OF THE SITE WITH ESTABLISHED VEGETATION AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL MEASURES AND STABILIZE THOSE AREAS DISTURBED BY THIS REMOVAL.

12. SUBMIT AS-BUILT AND CERTIFICATION OF STORM WATER FACILITIES TO BALTIMORE COUNTY.

OWNER'S/DEVELOPER'S CERTIFICATION:

"I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THIS CONSTRUCTION WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I/WE ALSO CERTIFY THAT THE SITE WILL BE INSPECTED AT THE END OF EACH WORKING DAY, AND THAT ANY NEEDED MAINTENANCE WILL BE COMPLETED SO AS TO INSURE THAT ALL SEDIMENT CONTROL PRACTICES ARE LEFT IN OPERATIONAL CONDITION. I/WE AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY THE BALTIMORE COUNTY SOIL CONSERVATION DISTRICT BOARD OF SUPERVISORS OR THEIR AUTHORIZED AGENTS.

SIGNATURE OWNER/DEVELOPER ____________________ DATE

PRINTED NAME ____________________ TITLE

CONSULTANTS CERTIFICATION:

"I CERTIFY THAT THIS PLAN OF EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BALTIMORE COUNTY SOIL CONSERVATION DISTRICT AND THE CURRENT STATE OF MARYLAND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. I HAVE REVIEWED THIS EROSION AND SEDIMENT CONTROL PLAN WITH THE OWNER."

SIGNATURE ____________________ DATE ____________

BLAINE W. LINKOUS — PRINT NAME

34682 — MD LICENSE NO.

NOTE TO CONTRACTOR: SEDIMENT AND EROSION CONTROL SHALL BE STRICTLY ENFORCED.

BALTIMORE COUNTY SOIL CONSERVATION DISTRICT
APPROVED FOR SEDIMENT CONTROL

____________________ DATE

COORDINATES SHOWN HEREON ARE REFERRED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM, NAD 83 (1991).

ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

PROJECT INFORMATION

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college

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GOUCHER COLLEGE
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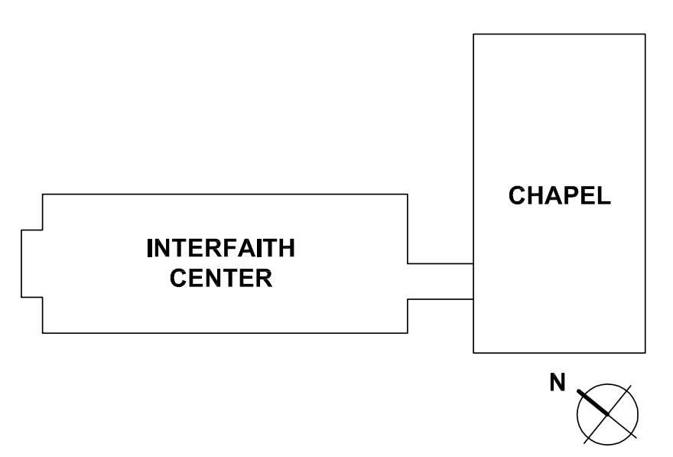
REVISIONS

REV. #	DESCRIPTION	DATE

KEY PLAN



AYERS
SAINT
GROSS
ARCHITECTS + PLANNERS

NOT FOR CONSTRUCTION

DRAWING INFORMATION	
ISSUE DATE:	04/28/17
SCALE:	N/A
JOB NO.:	21641.00
DRAWN BY:	M.L.H.

PROJECT DESIGN PHASE

50% CONSTRUCTION DOCUMENTS

DRAWING NAME

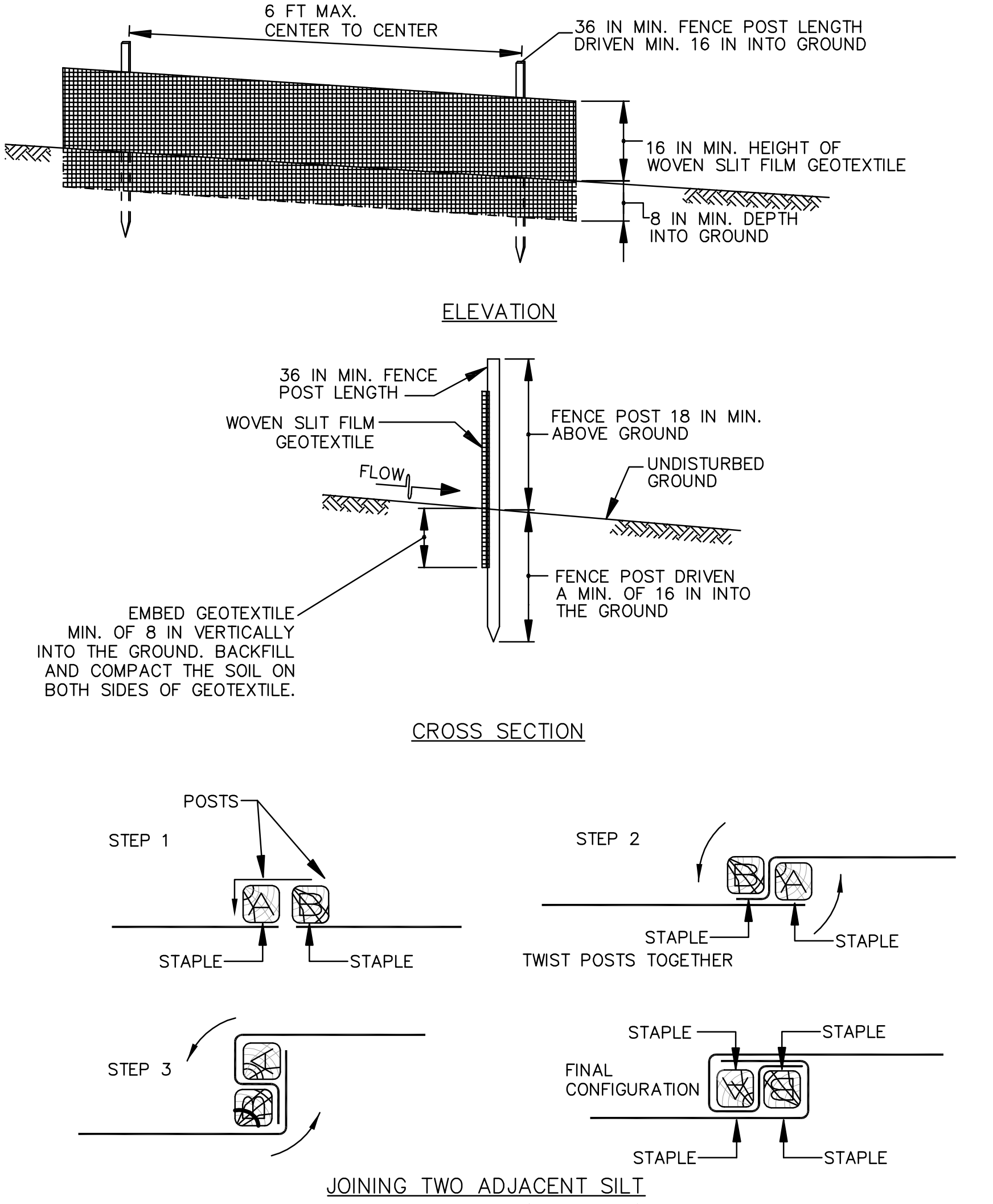
EROSION AND SEDIMENT CONTROL NOTES

DRAWING NUMBER

C402

DETAIL E-1 SILT FENCE

STANDARD SYMBOL ├──SF──┤



1 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-1 SILT FENCE

STANDARD SYMBOL ├──SF──┤

CONSTRUCTION SPECIFICATIONS

1. USE WOOD POSTS 1¾ X 1¾ ± 1⁄16 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
2. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
3. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H–1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID–SECTION.
4. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H–1 MATERIALS.
5. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

2 OF 2

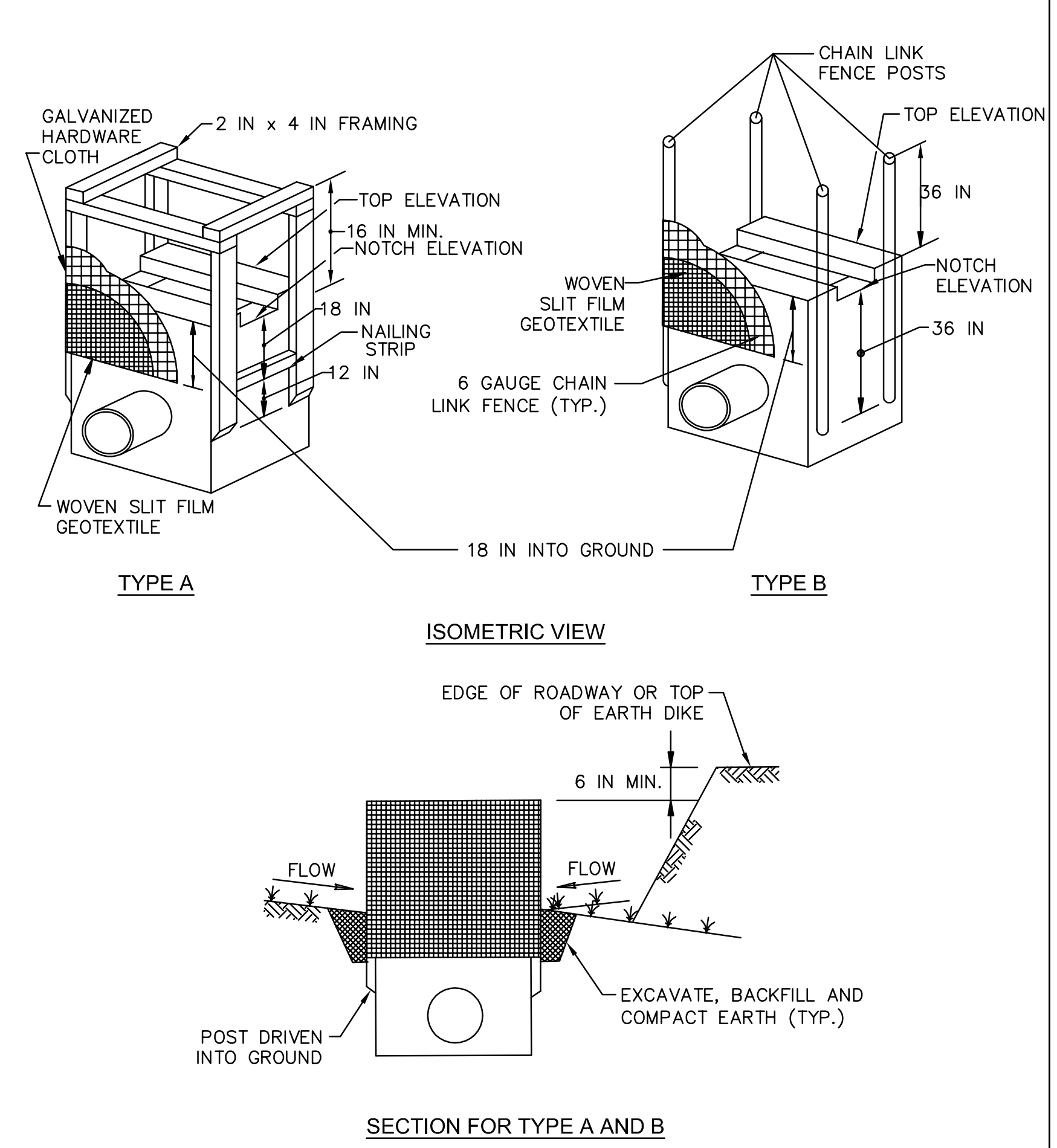
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-9-1 STANDARD INLET PROTECTION

STANDARD SYMBOL SIP

TYPE A MAXIMUM DRAINAGE AREA = ¼ ACRE
TYPE B MAXIMUM DRAINAGE AREA = 1 ACRE



MODIFIED FOR USE IN BALTIMORE COUNTY

1 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL MODIFIED FOR USE IN BALTIMORE COUNTY

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	MODIFIED 2012	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-9-1 STANDARD INLET PROTECTION

STANDARD SYMBOL SIP

CONSTRUCTION SPECIFICATIONS

1. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H–1 MATERIALS.
2. EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 18 INCHES BELOW THE NOTCH ELEVATION.
3. FOR TYPE A, USE NOMINAL 2 INCH X 4 INCH CONSTRUCTION GRADE LUMBER POSTS, DRIVEN 1 FOOT INTO THE GROUND AT EACH CORNER OF THE INLET. PLACE NAIL STRIPS BETWEEN THE POSTS ON THE ENDS OF THE INLET. ASSEMBLE THE TOP PORTION OF THE 2X4 FRAME AS SHOWN. STRETCH ¼ INCH GALVANIZED HARDWARE CLOTH TIGHTLY AROUND THE FRAME AND FASTEN SECURELY. FASTEN GEOTEXTILE SECURELY TO THE HARDWARE CLOTH WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND HARDWARE CLOTH A MINIMUM OF 18 INCHES BELOW THE WEIR CREST. THE ENDS OF THE GEOTEXTILE MUST MEET AT A POST, BE OVERLAPPED AND FOLDED, THEN FASTENED TO THE POST.

   FOR TYPE B, USE 2⅜ INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND 6 FOOT LENGTH, DRIVEN A MINIMUM OF 36 INCHES BELOW THE WEIR CREST AT EACH CORNER OF THE STRUCTURE. FASTEN 6 GAUGE OR HEAVIER CHAIN LINK FENCE, 42 INCHES IN HEIGHT, SECURELY TO THE FENCE POSTS WITH WIRE TIES. FASTEN GEOTEXTILE SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 18 INCHES BELOW THE WEIR CREST.
4. BACKFILL AROUND THE INLET IN LOOSE 4 INCH LIFTS AND COMPACT UNTIL SOIL IS LEVEL WITH THE NOTCH ELEVATION ON THE ENDS AND TOP ELEVATION ON THE SIDES.
5. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

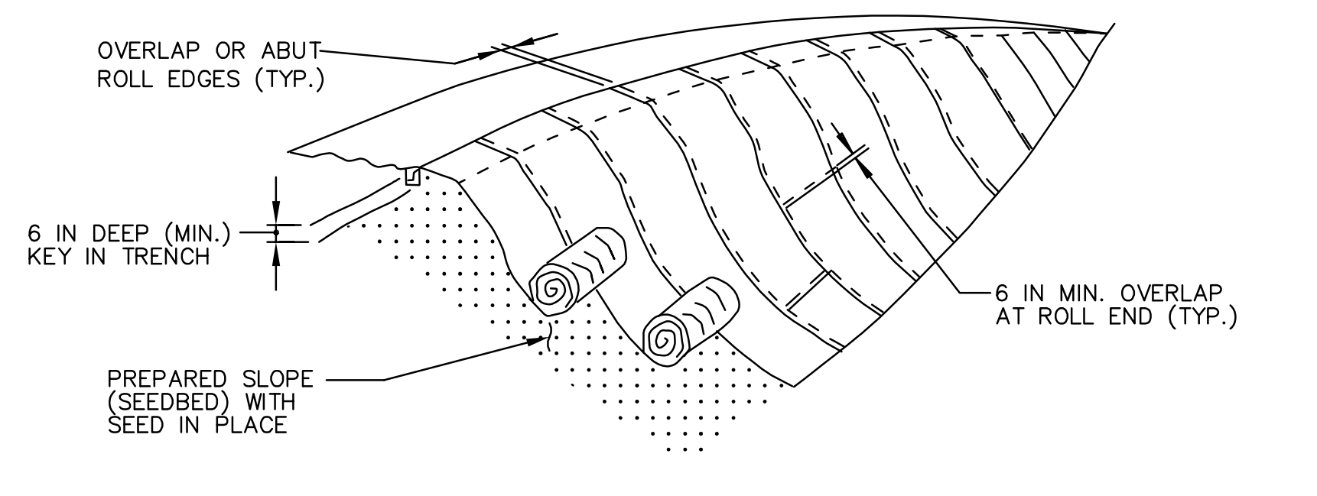
2 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL MODIFIED FOR USE IN BALTIMORE COUNTY

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	MODIFIED 2012	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL B-4-6-B TEMPORARY SOIL STABILIZATION MATTING SLOPE APPLICATION

STANDARD SYMBOL
TSSMS – * lb/ft²
(* INCLUDE SHEAR STRESS)



CONSTRUCTION SPECIFICATIONS

1. USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
2. USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN–MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION OF FIBERS THROUGHOUT AND BE SMOLDER RESISTANT. CHEMICALS USED IN THE MAT MUST BE NON–LEACHING AND NON–TOXIC TO VEGETATION AND SEED GERMINATION AND NON–INJURIOUS TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2x2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
3. SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1½ INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND A MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH–SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM.
4. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION & SEDIMENT CONTROL PLAN.
5. UNROLL MATTING DOWNSLOPE. LAY MAT SMOOTHLY AND FIRMLY UPON THE SEEDED SURFACE. AVOID STRETCHING THE MATTING.
6. OVERLAP OR ABUT ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSLOPE MAT OVERLAPPING ON TOP OF THE DOWNSLOPE MAT.
7. KEY IN THE UPSLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
8. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
9. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B–4 VEGETATIVE STABILIZATION.

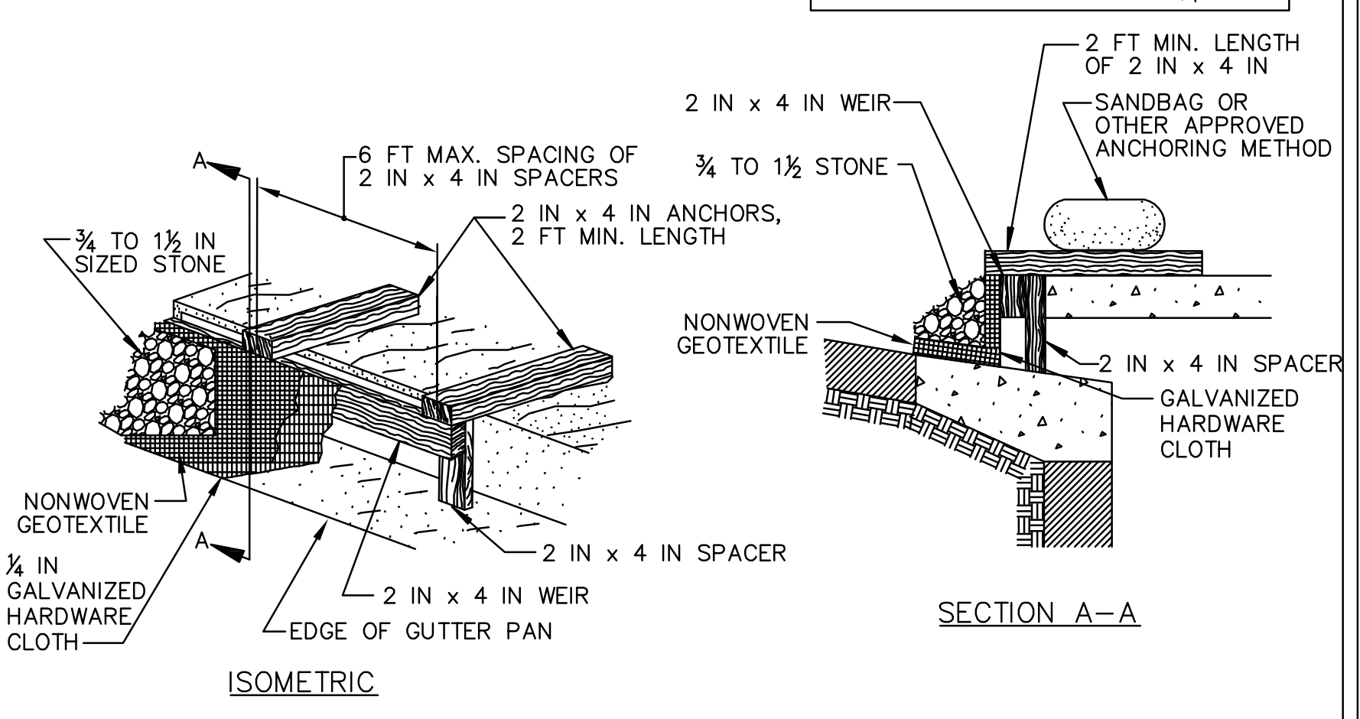
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-9-3 CURB INLET PROTECTION

STANDARD SYMBOL CIP

MAXIMUM DRAINAGE AREA = ¼ ACRE



CONSTRUCTION SPECIFICATIONS

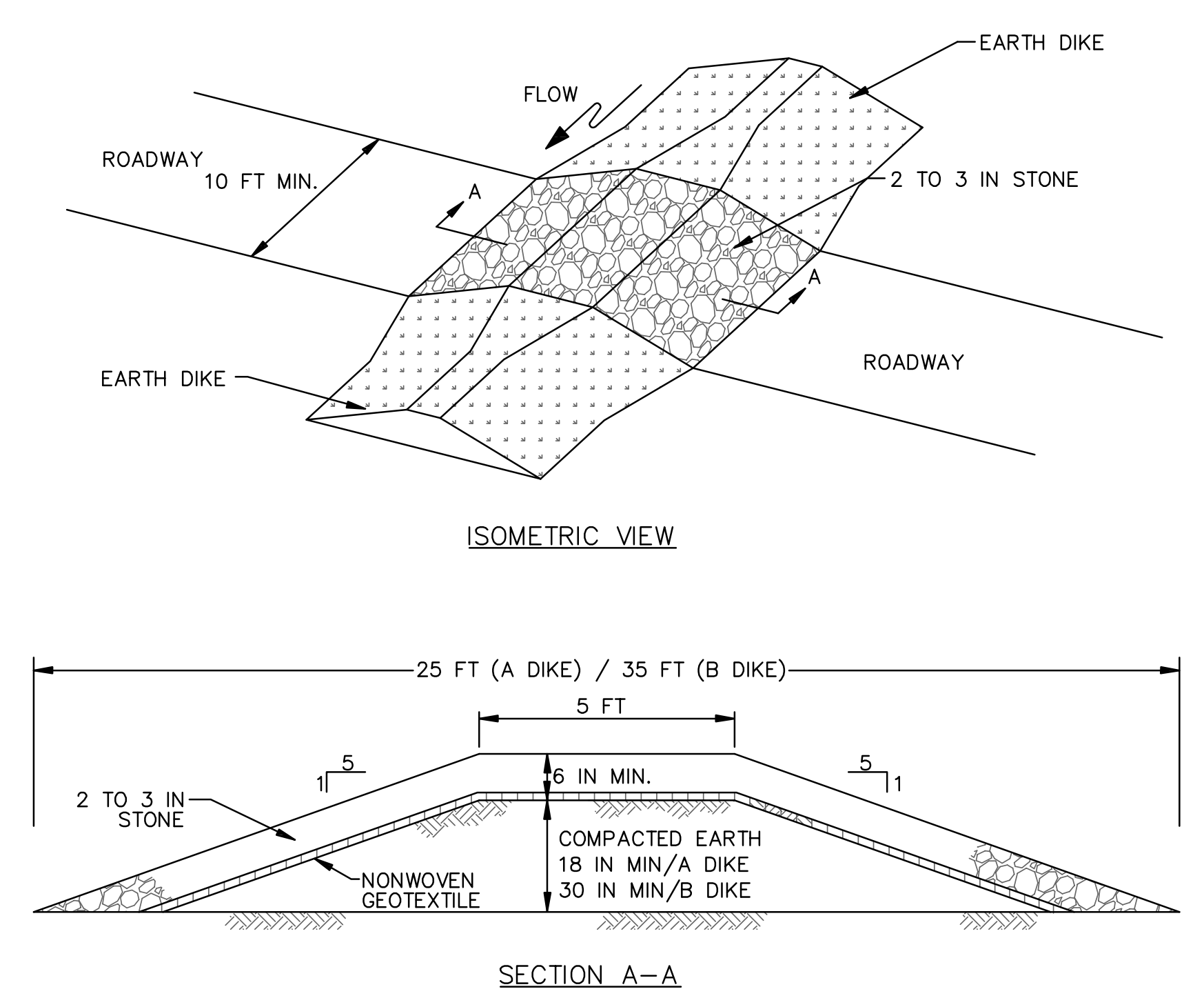
1. USE NOMINAL 2 INCH x 4 INCH LUMBER
2. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H–1 MATERIALS.
3. NAIL THE 2x4 WEIR TO 9 INCH LONG VERTICAL SPACERS (MAXIMUM 6 FEET APART).
4. ATTACH A CONTINUOUS PIECE OF ¼ INCH GALVANIZED HARDWARE CLOTH, WITH A MINIMUM WIDTH OF 30 INCHES AND A MINIMUM LENGTH OF 4 FEET LONGER THAN THE THROAT OPENING, TO THE 2x4 WEIR, EXTENDING IT 2 FEET BEYOND THROAT ON EACH SIDE.
5. PLACE A CONTINUOUS PIECE OF NONWOVEN GEOTEXTILE OF THE SAME DIMENSIONS AS THE HARDWARE CLOTH OVER THE HARDWARE CLOTH AND SECURELY ATTACH TO THE 2x4 WEIR.
6. PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL TO 2x4 ANCHORS (MINIMUM 2 FEET LENGTH). EXTEND THE ANCHORS ACROSS THE INLET TOP AND HOLD IN PLACE BY SANDBAGS OR OTHER APPROVED ANCHORING METHOD.
7. INSTALL END SPACERS A MINIMUM OF 1 FOOT BEYOND THE ENDS OF THE THROAT OPENING.
8. FORM THE HARDWARE CLOTH AND THE GEOTEXTILE TO THE CONCRETE GUTTER AND FACE OF CURB TO SPAN THE INLET OPENING. COVER THE HARDWARE CLOTH AND GEOTEXTILE WITH CLEAN ¾ TO 1½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE.
9. AT NON–SUMP LOCATIONS, INSTALL A TEMPORARY SANDBAG OR ASPHALT BERM TO PREVENT INLET BYPASS.
10. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL C-8 MOUNTABLE BERM

STANDARD SYMBOL MB



CONSTRUCTION SPECIFICATIONS

1. USE MINIMUM WIDTH OF 10 FEET TO ALLOW FOR VEHICULAR PASSAGE.
2. PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H–1 MATERIALS, OVER THE EARTH MOUND PRIOR TO PLACING STONE.
3. PLACE 2 TO 3 INCH STONE OR EQUIVALENT RECYCLED CONCRETE AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE MOUNTABLE BERM.
4. MAINTAIN LINE, GRADE, AND CROSS SECTION. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN SPECIFIED DIMENSIONS. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. MAINTAIN POSITIVE DRAINAGE.

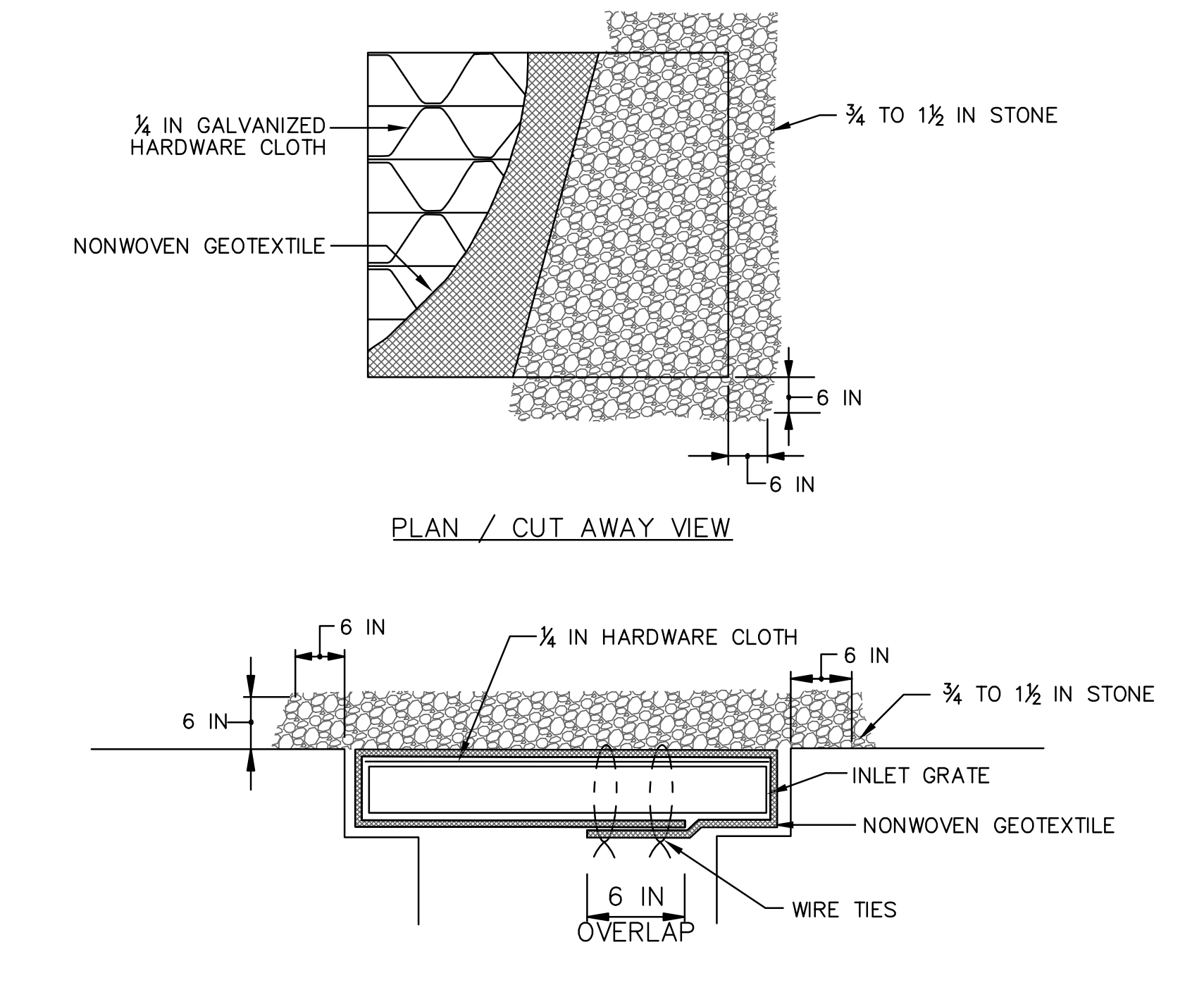
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-9-2 AT-GRADE INLET PROTECTION

STANDARD SYMBOL AGIP

MAXIMUM DRAINAGE AREA = 1 ACRE



CROSS SECTION

CONSTRUCTION SPECIFICATIONS

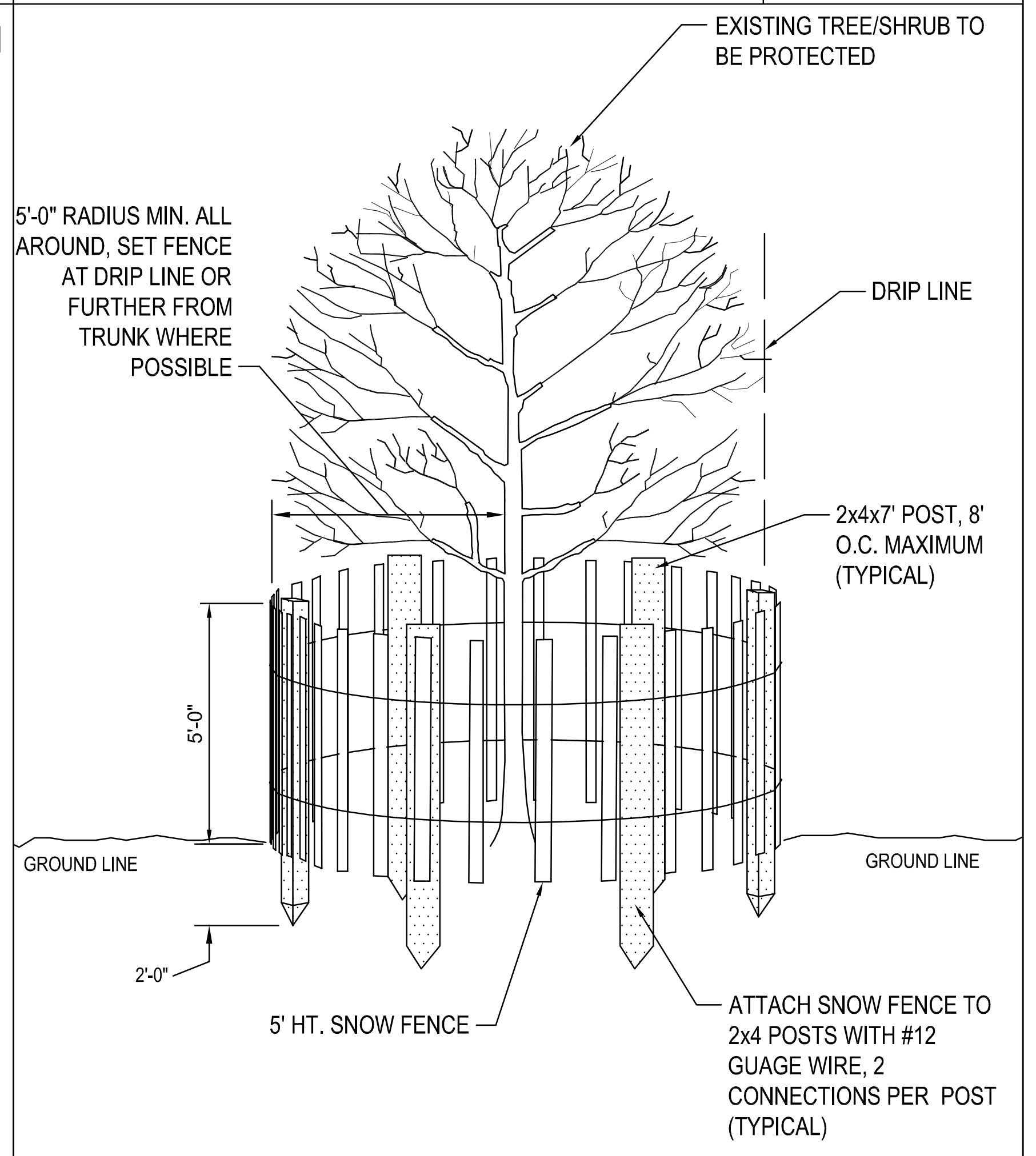
1. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H–1 MATERIALS.
2. LIFT GRATE AND WRAP WITH NONWOVEN GEOTEXTILE TO COMPLETELY COVER ALL OPENINGS. SECURE WITH WIRE TIES AND SET GRATE BACK IN PLACE.
3. PLACE CLEAN ¾ TO 1½ INCH STONE OR EQUIVALENT RECYCLED CONCRETE 6 INCHES THICK ON THE GRATE.
4. STORM DRAIN INLET PROTECTION REQUIRES FREQUENT MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AFTER EACH RAIN EVENT TO MAINTAIN FUNCTION AND AVOID PREMATURE CLOGGING. IF INLET PROTECTION DOES NOT COMPLETELY DRAIN WITHIN 24 HOURS AFTER A STORM EVENT, IT IS CLOGGED. WHEN THIS OCCURS, REMOVE ACCUMULATED SEDIMENT AND CLEAN, OR REPLACE GEOTEXTILE AND STONE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

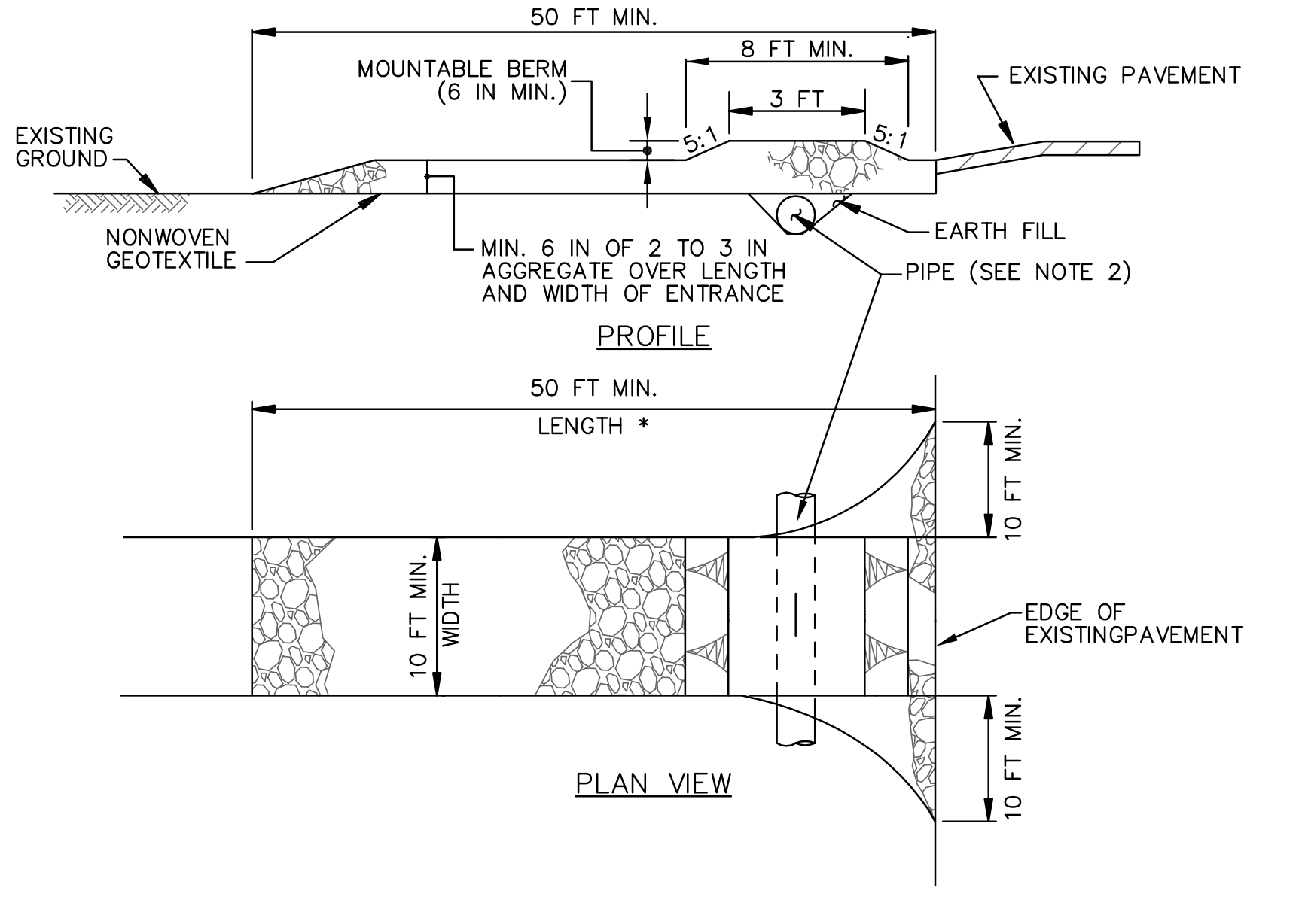
DETAIL TREE PROTECTION

STANDARD SYMBOL ──TP──



DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL SCE



CONSTRUCTION SPECIFICATIONS

1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H–1 MATERIALS.
4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

COORDINATES SHOWN HEREON ARE REFERRED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM, NAD 83 (1991).

ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

PROJECT INFORMATION

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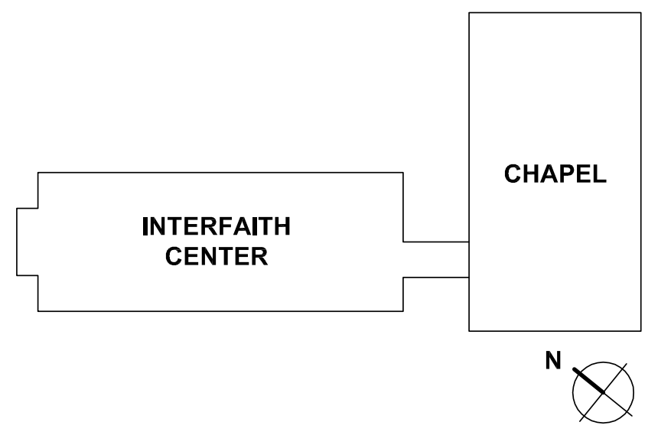
REVISIONS

REV. #	DESCRIPTION	DATE

KEY PLAN



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DRAWING INFORMATION	
ISSUE DATE:	04/28/17
SCALE:	AS SHOWN
JOB NO.:	21641.00
DRAWN BY:	M.L.H.

PROJECT DESIGN PHASE

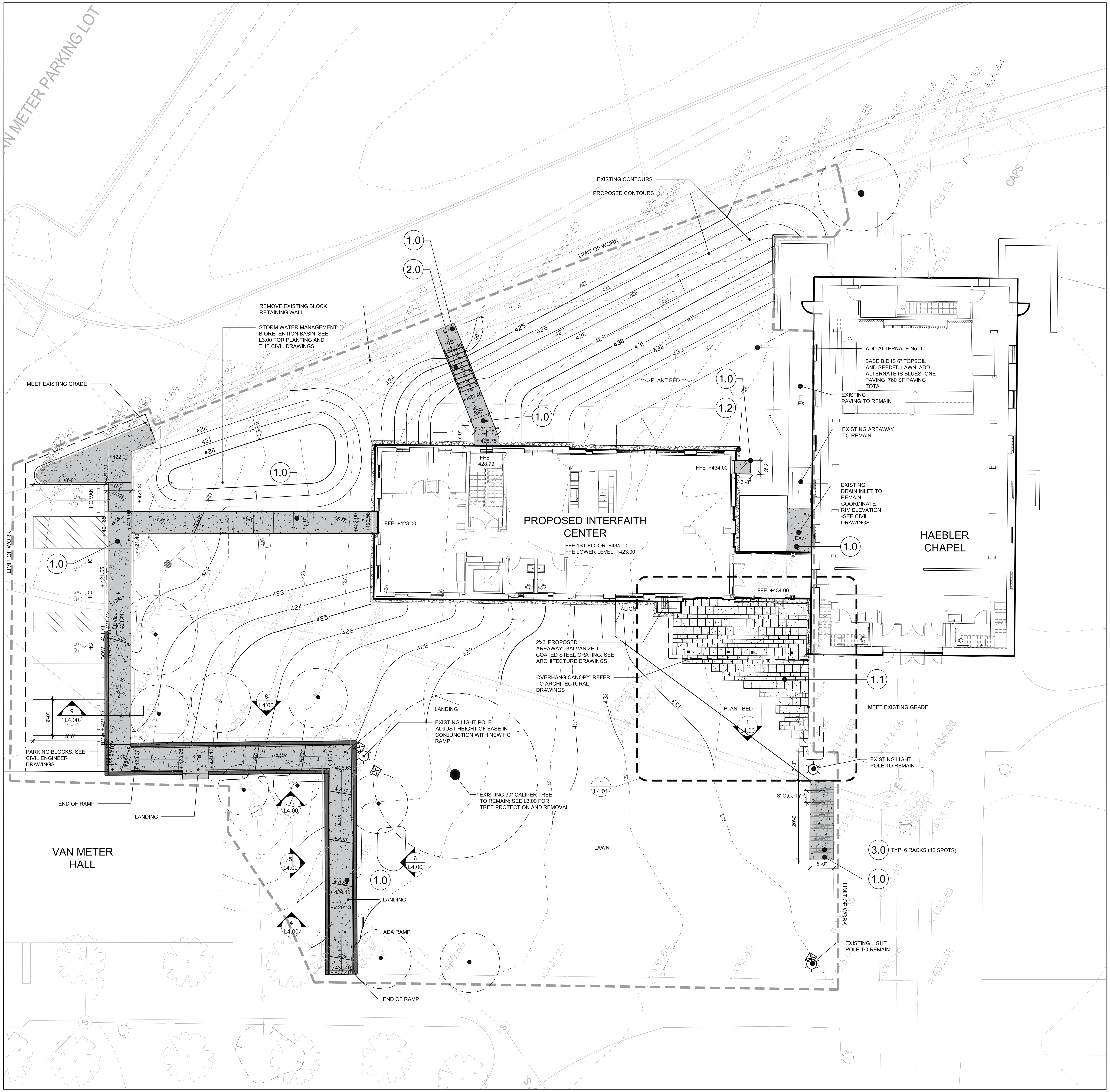
50% CONSTRUCTION DOCUMENTS

DRAWING NAME

EROSION AND SEDIMENT CONTROL DETAILS

DRAWING NUMBER

C403



1 MATERIALS PLAN

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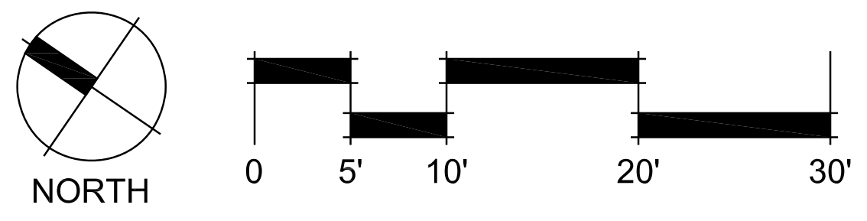

LEGEND:

▬ ▬	LIMIT OF WORK
▨	CONCRETE PAVING SCORED AS SHOWN ON PLAN
▦	BLUESTONE PAVING
▩	WASHED STONE DRIP EDGE
⊙	EXISTING TREES TO REMAIN
╪╪╪╪	BICYCLE RACKS (SURFACE MOUNTED)

DETAIL KEYNOTES:

		Detail / Sheet	Related Details	Spec Section
(1.0)	Pavements			
1.0	Concrete Paving	-SEE CIVIL DWGS.		
1.1	Blue Stone Paving	1/L4.00	1/L4.01	
1.2	Washed Stone Drip Edge	3/L4.01		
(2.0)	Steps, Ramps, and Curbs			
2.0	CIP Concrete Steps With Handrail	4/L4.00	3/L4.00	
(3.0)	Site Furniture			
3.0	Bicycle Rack	SURFACE MOUNT	2/L4.01	

GENERAL NOTES:

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2. FIELD VERIFY UNDERGROUND UTILITY LOCATIONS AND EXISTING CONDITIONS BEFORE STARTING PLANTING WORK. CONTACT CONSTRUCTION MANAGER OR OWNER IF ANY RELOCATIONS ARE REQUIRED.
3. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND EQUIPMENT TO COMPETE ALL LANDSCAPE WORK AS SHOWN ON THE PLANS AND SUPPORTING TEXT.
4. CONTRACTOR SHALL NOTIFY ALL NECESSARY UTILITY COMPANIES 48 HOURS MINIMUM PRIOR TO DIGGING FOR VERIFICATION OF ALL UNDERGROUND UTILITIES, IRRIGATION AND OTHER ELEMENTS AND COORDINATE WITH THE OWNER'S REPRESENTATIVE PRIOR TO INITIATING OPERATIONS. DRAWINGS ARE PREPARED ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARING THESE DOCUMENTS.
5. CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH EXISTING SITE CONDITIONS PRIOR TO INITIATING CONSTRUCTION. ALL EXISTING ROADS, PARKING LOTS, CURBS, UTILITIES, SEWERS AND OTHER ELEMENTS TO REMAIN SHALL BE FULLY PROTECTED FROM ANY DAMAGE UNLESS OTHERWISE NOTED.
6. REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND FIELD CONDITIONS TO THE OWNER'S REPRESENTATIVE IMMEDIATELY. FOLLOW THE OWNER'S REPRESENTATIVE'S INSTRUCTIONS ON RESOLVING ANY DISCREPANCIES.
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11. ALL PAVEMENT SHALL BE STAKED IN THE FIELD USING LAYOUT GEOMETRY INDICATED ON THE SITE LAYOUT PLANS. PRIOR TO CONSTRUCTION ALIGNMENT MAY BE ADJUSTED TO ACCOMMODATE EXISTING DRAIN INLETS, MANHOLES, OR OTHER SITE ELEMENTS.
12. MAINTAIN ALL EXISTING EROSION AND SEDIMENTATION CONTROL MEASURES (SILT FENCE, ORANGE GEO FENCE AND/ OR OTHER MEASURES) DURING CONSTRUCTION. PROVIDE ADDITIONAL MEASURES AS NECESSARY TO MINIMIZE ADVERSE IMPACTS TO THE WATER BODIES, EXISTING PARKING LOTS, ETC. ACCORDING TO ALL APPLICABLE FEDERAL/ STATE LAW AND REGULATIONS.
13. REFER TO CIVIL ENGINEER'S GRADING PLANS FOR PAVEMENT ELEVATIONS. MATCH GRADES WITH EXISTING CONDITIONS. MAKE SURE THAT ABUTTING PAVEMENT SURFACES ARE FLUSH WITHIN 1/8" TOLERANCES.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL/ PROTECTION BY LOCALLY APPROVED MEANS AND MAINTAINING EROSION CONTROLS ALREADY IN PLACE. CONTRACTOR SHALL ADHERE TO ALL GOVERNING CODES AND REQUIREMENTS.
15. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
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18. WALLS AND ALL WALKS ARE TO BE STAKED IN THE FIELD AND FINAL LOCATIONS TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
19. REFER TO CIVIL ENGINEERS DRAWINGS FOR OVERALL SITE LAYOUT AND GRADING.
20. WRITTEN DIMENSIONS WILL PREVAIL IN THESE DRAWINGS. DO NOT SCALE FROM THESE PLANS.

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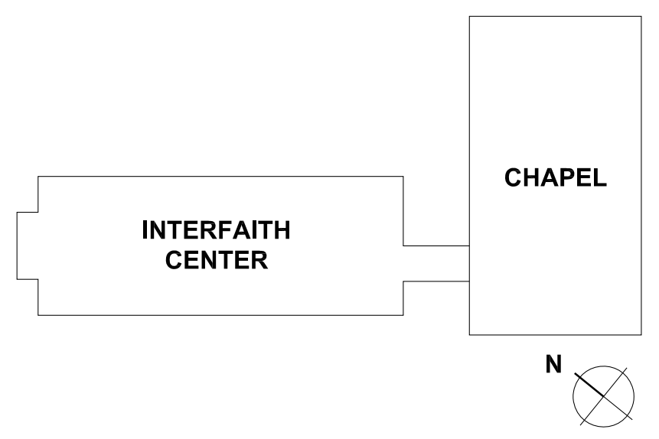
REVISIONS

REV. #	DESCRIPTION	DATE
1	Changes to materials and layout	01/23/2017

KEY PLAN



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DRAWING INFORMATION

ISSUE DATE:	04/28/17
SCALE:	1"=10'-0'
JOB NO.:	21641.00
DRAWN BY:	NG

PROJECT DESIGN PHASE

50% CONSTRUCTION DRAWINGS

DRAWING NAME

MATERIALS PLAN

DRAWING NUMBER

L1.00

STAPLE EDGE

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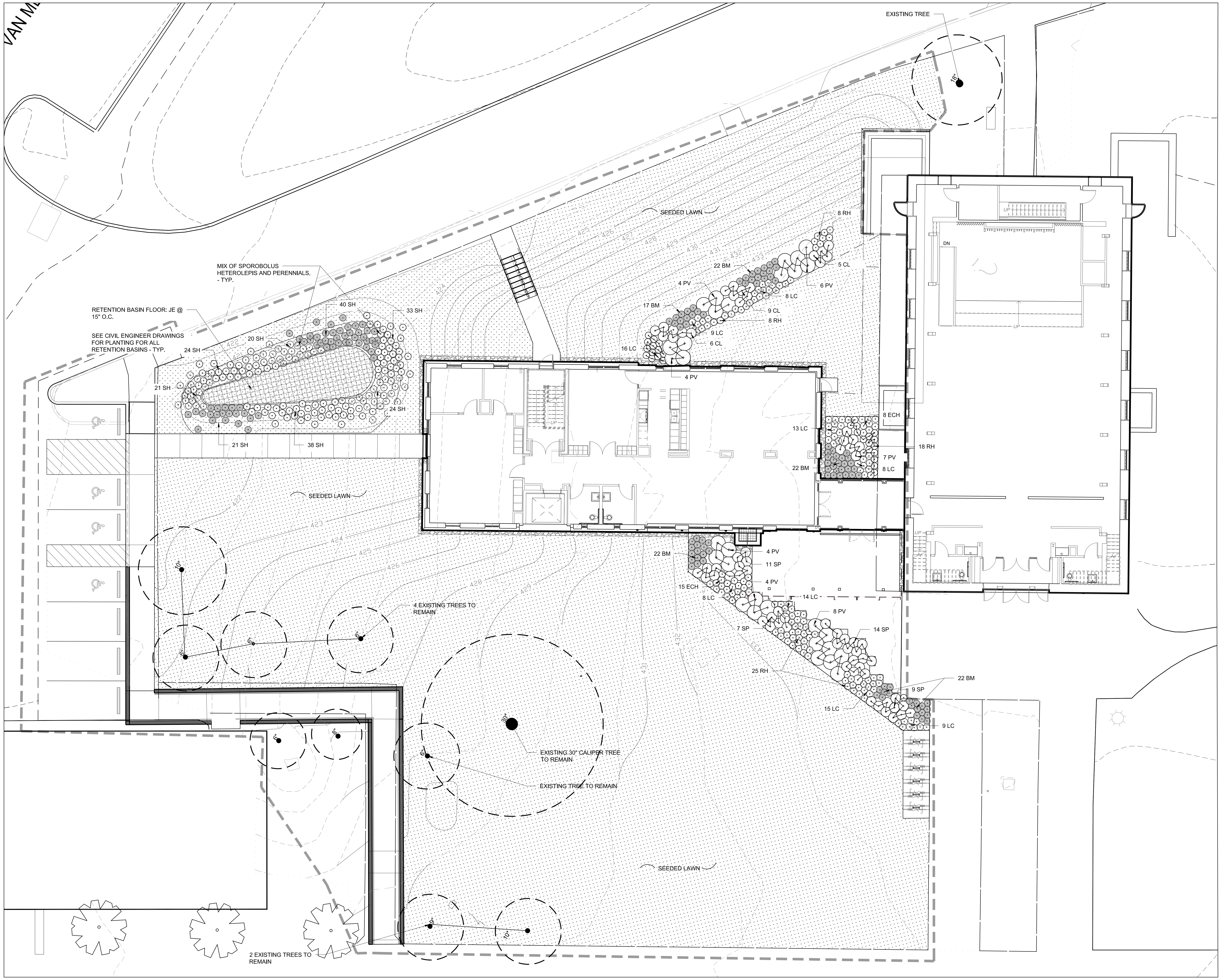

① PLANTING PLAN

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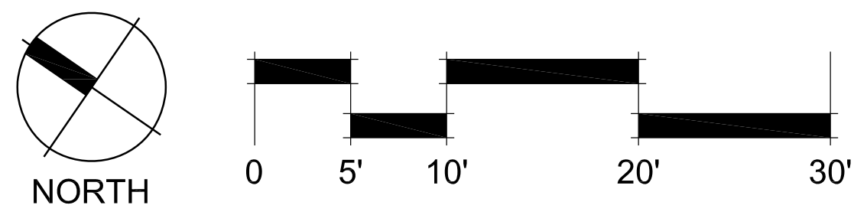

LEGEND

▬ ▬ ▬ LIMIT OF WORK LINE

○ EXISTING TREE TO REMAIN
SEE CIVIL DRAWINGS

● GRASS AND PERENNIAL PLANTINGS
SEE PLANTING DETAIL 4/LA4.03

▨ SEEDED LAWN

▦ MICRO-BIORETENTION FLOOR MIX
SEE PLANTING DETAIL 2/LA4.03

PLANT SCHEDULE

GRASSES

	KEY	BOTANICAL/COMMON NAME	ROOT	SIZE	SPACING
	CL	Chasmanthium latifolium Wood oats	Cont.	#1	as shown
	JE	Juncus effussus Common rush	Plug	LP50	15" O.C.
	PV	Panicum virgatum ‘Shenandoah’ Red Switch Grass	Cont.	#1	30" O.C.
	SH	Sporobolus heterolepis Prairie dropseed	Cont.	#1	as shown

PERENNIALS

	KEY	BOTANICAL/COMMON NAME	ROOT	SIZE	SPACING
	BM	Baptisia 'Midnight' Midnight Prairie Blues	Plug	LP50	12" O.C.
	ECH	Echinacea purpurea Purple Cone Flower	Plug	LP50	AS SHOWN
	LC	Lobelia cardinalis Cardinal flower	Plug	LP50	AS SHOWN
	RH	Rudbeckia hirta Blackeyed Susan	Plug	LP50	AS SHOWN
	PHV	Physostegia virginiana Obedient plant	Plug	LP50	12" O.C.
	SH	Sporobolus heterolepis Prairie dropseed	Plug	LP50	AS SHOWN
	TV	Tradescantia virginiana common Virginia spiderwort	Plug	LP50	18" O.C.

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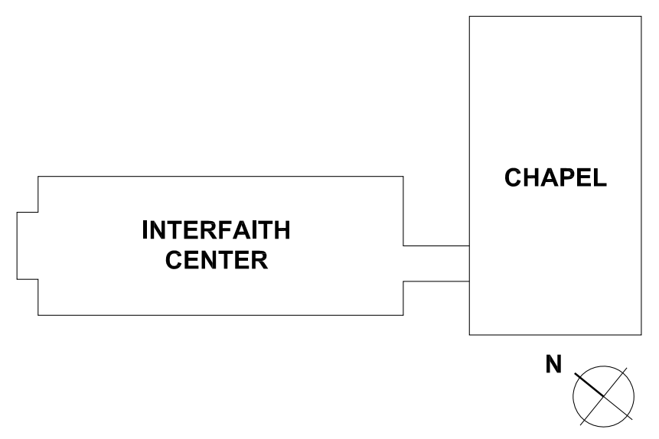

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ISSUE DATE:	04/276/17
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JOB NO.:	21641.00
DRAWN BY:	NG

PROJECT DESIGN PHASE

50% CONSTRUCTION DRAWINGS

DRAWING NAME

PLANTING PLAN

DRAWING NUMBER

L3.00

STAPLE EDGE
STAPLE EDGE
STAPLE EDGE

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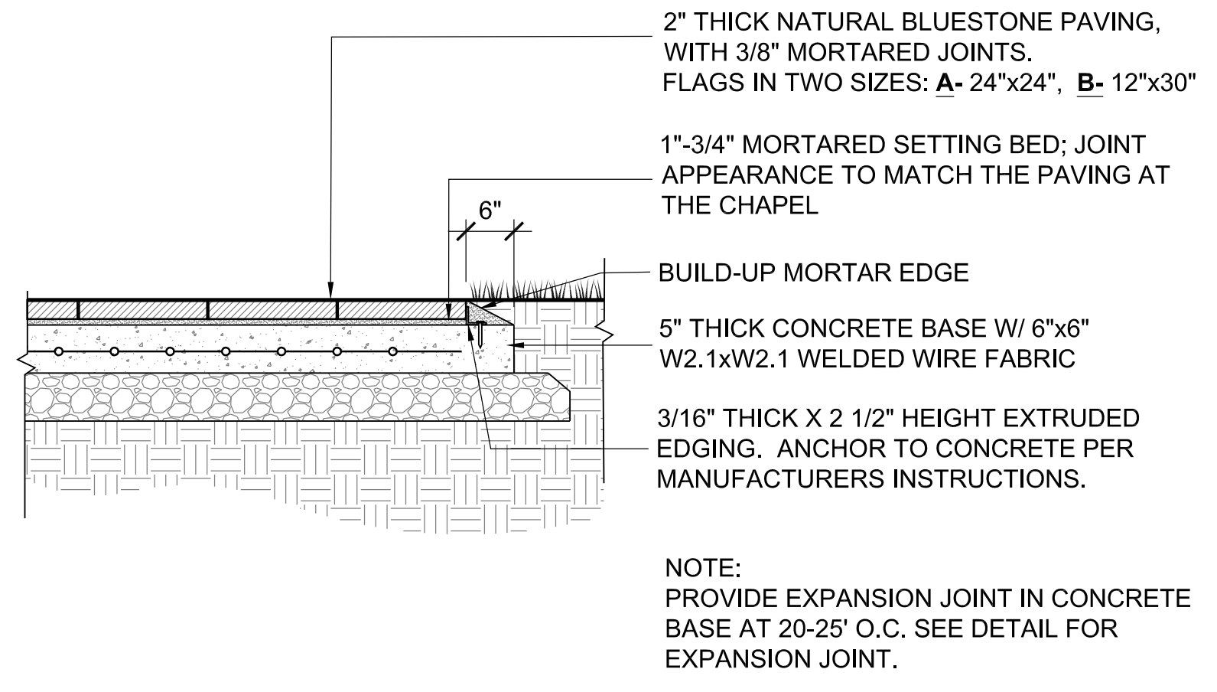
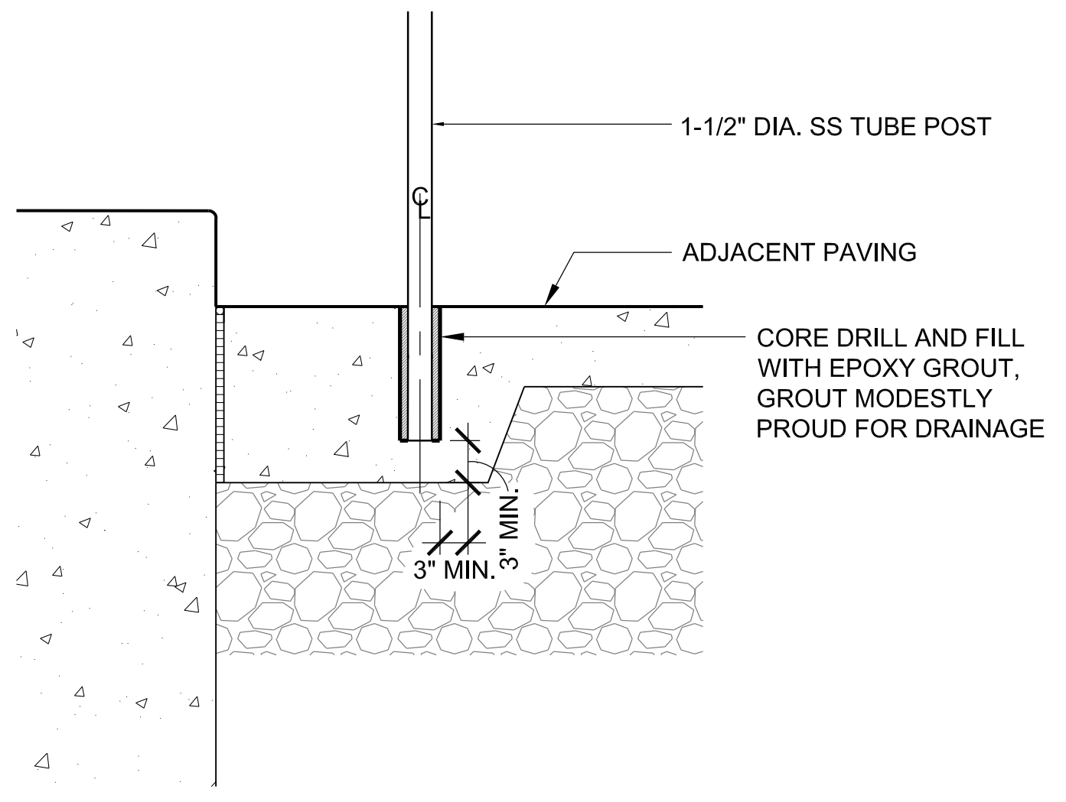
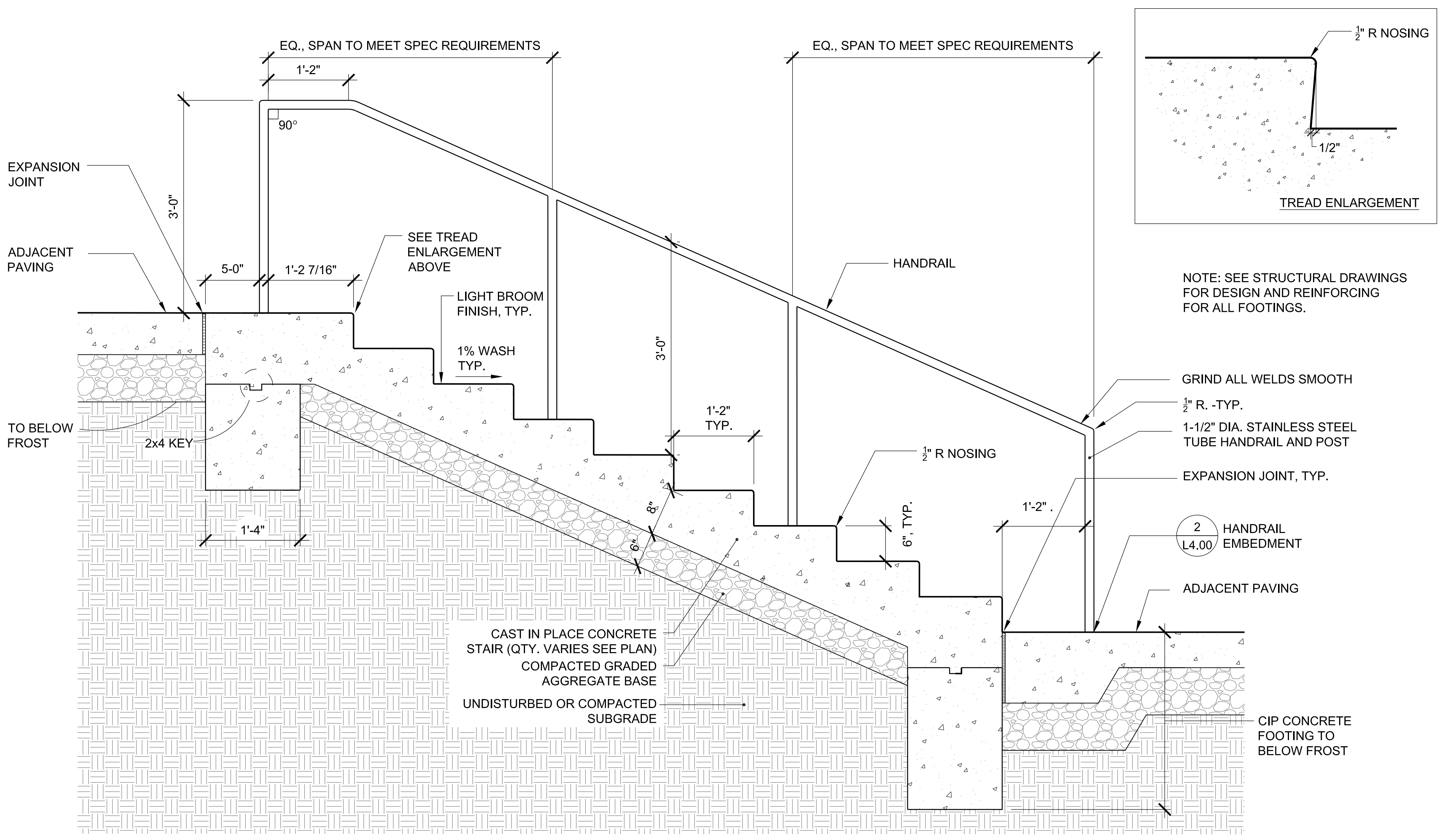


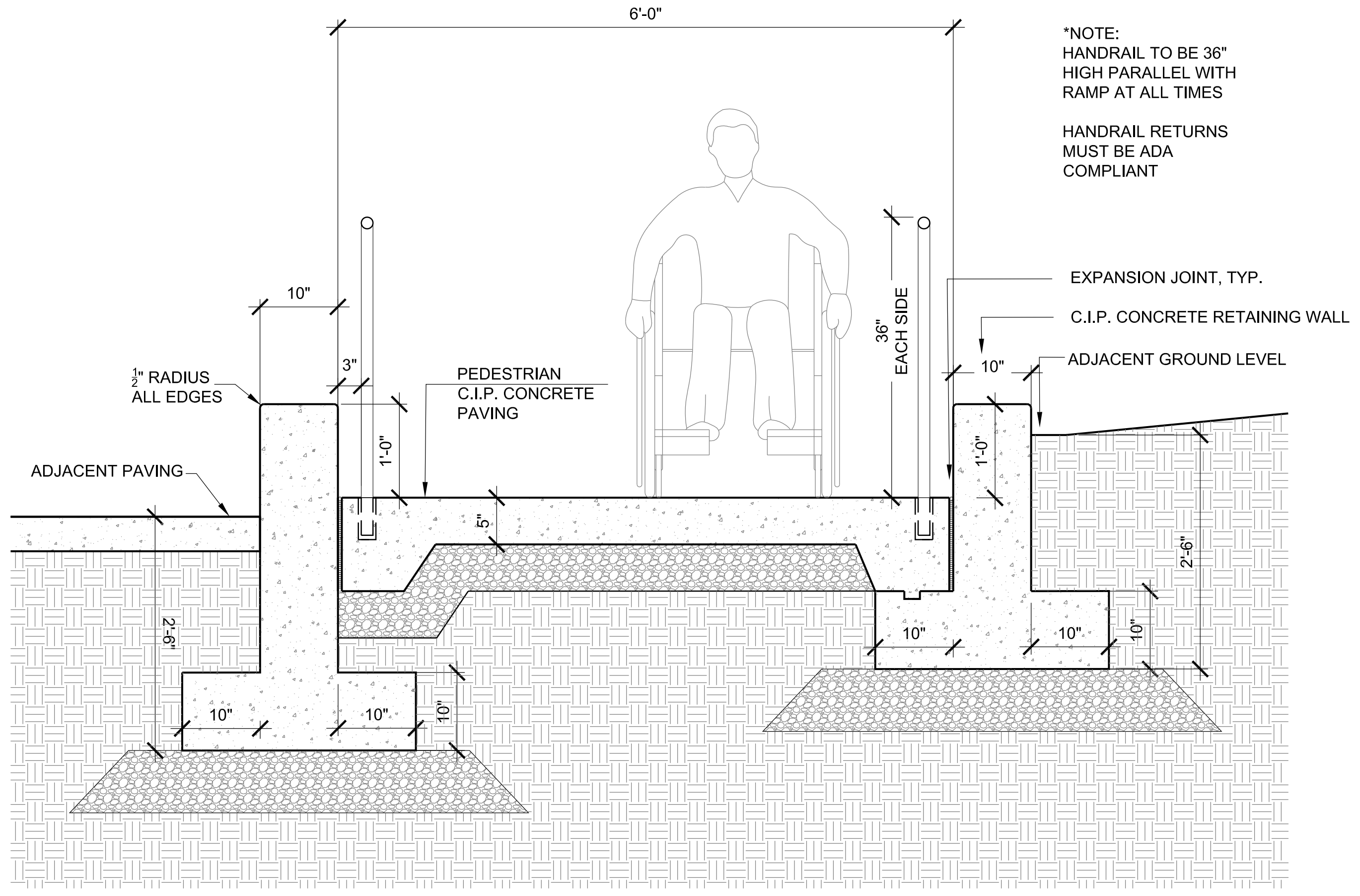
1 BLUE STONE PAVING
SECTION 1/2" = 1'-0"



2 HANDRAIL EMBEDMENT
SECTION 1"= 1'-0"



3 CIP CONCRETE STEPS WITH HANDRAIL
SECTION 3/4"= 1'-0"



4 ADA RAMP
SECTION 3/4"= 1'-0"

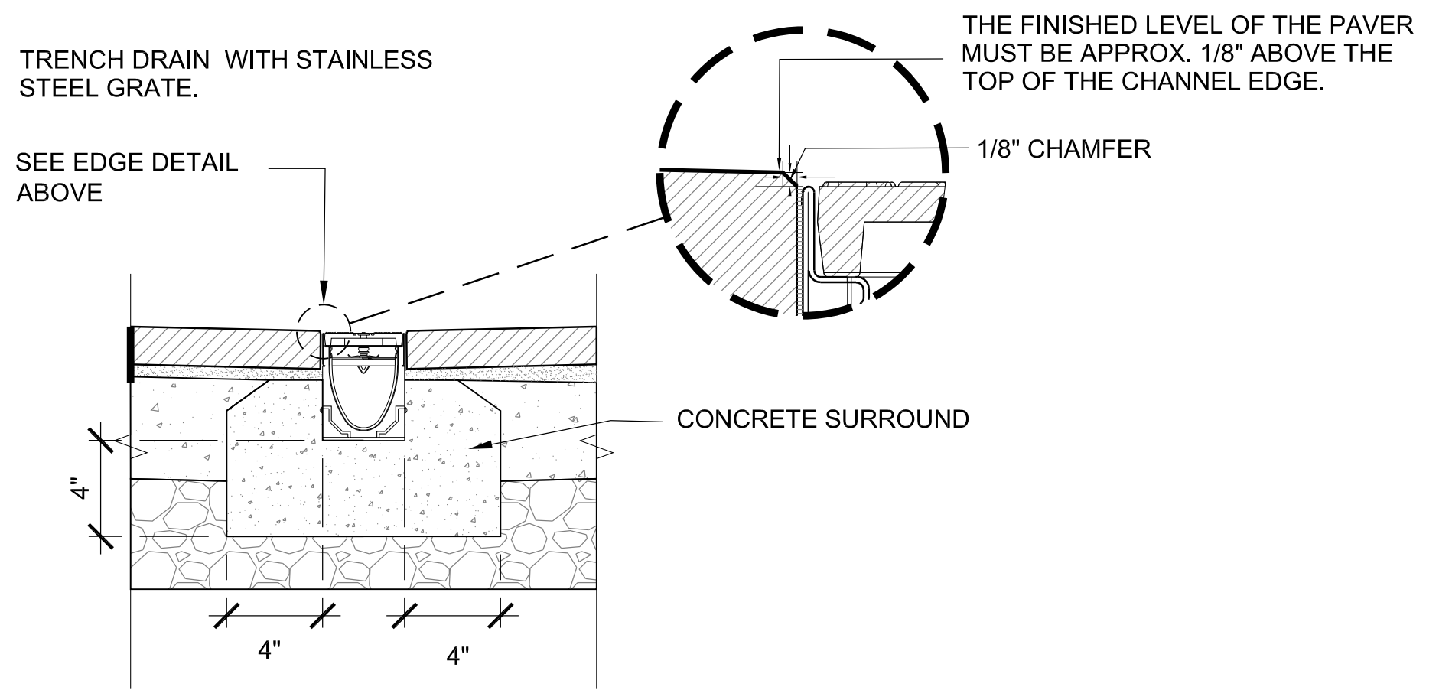
5 ADA RAMP
ELEVATION 1"= 1'-0"

6 ADA RAMP
ELEVATION 1"= 1'-0"

7 ADA RAMP
ELEVATION 1"= 1'-0"

8 ADA RAMP
ELEVATION 1"= 1'-0"

9 ADA RAMP
SECTION 1"= 1'-0"



NOTES:
1. THE CHANNEL MUST BE SUPPORTED LATERALLY AND THEREFORE PAVERS MUST BE RESTRAINED FROM MOVEMENT BY BEDDING SECURELY. E.G. BY USING AN EPOXY OR POLYMER MODIFIED MORTAR FOR BED AND PERPENDICULAR JOINTS. ENGINEERING ADVICE MAY BE REQUIRED.
2. MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND. *ENGINEERING ADVICE MAY BE REQUIRED.*
4. CONCRETE BASE THICKNESS SHOULD MATCH SLAB THICKNESS. ENGINEERING ADVICE MAY BE REQUIRED TO DETERMINE PROPER LOAD CLASS.
5. REFER TO MANUFACTURER LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

10 TRENCH DRAIN
SECTION 1"= 1'-0"

PROJECT INFORMATION

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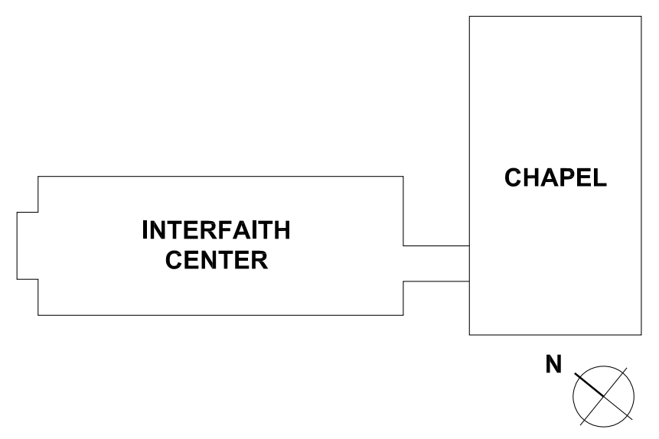
REVISIONS

REV. #	DESCRIPTION	DATE

KEY PLAN



AYERS SAINT GROSS
ARCHITECTS + PLANNERS

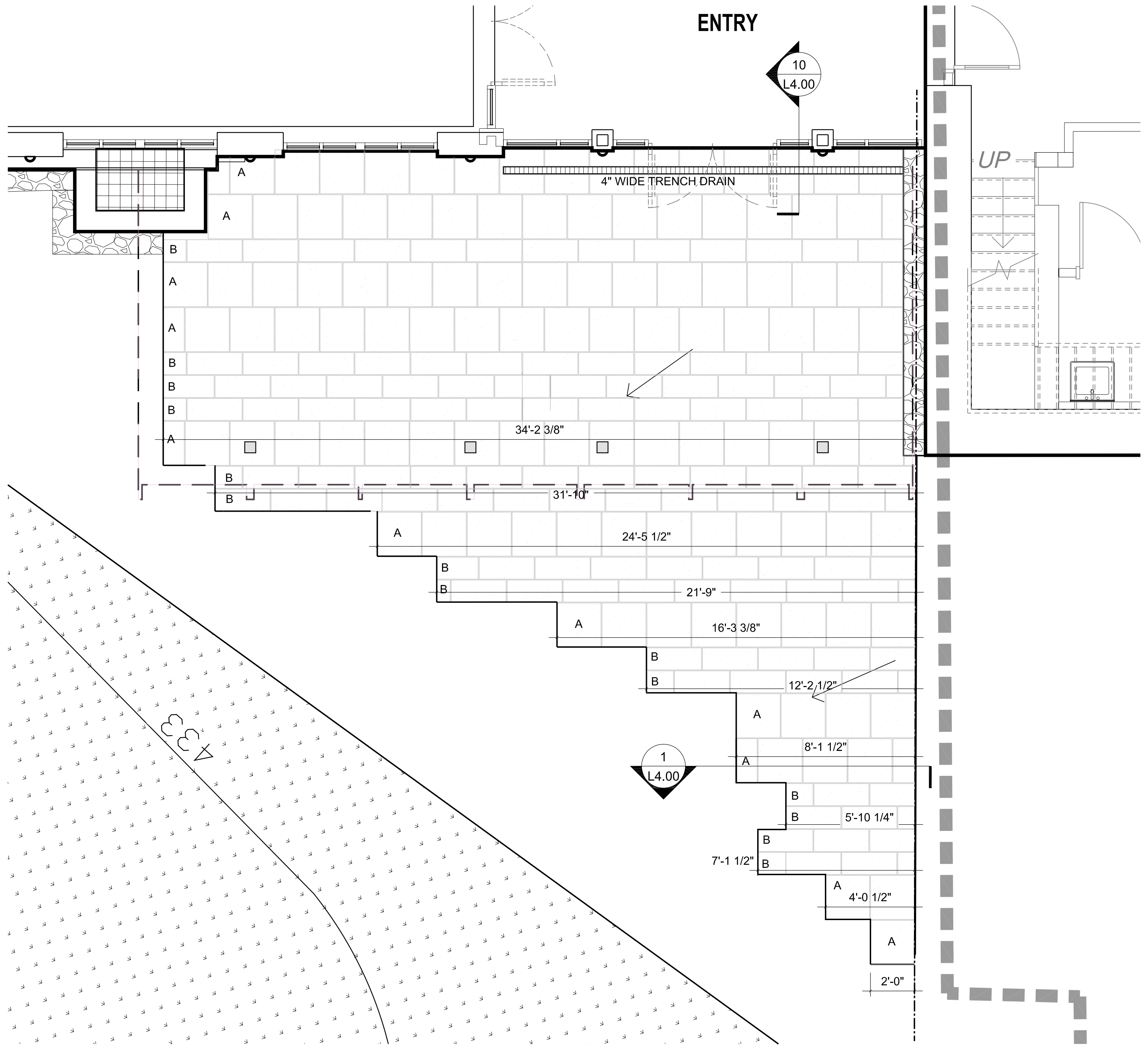
NOT FOR CONSTRUCTION

DRAWING INFORMATION	
ISSUE DATE:	04/28/17
SCALE:	VARIES
JOB NO.:	21641.00
DRAWN BY:	NG

PROJECT DESIGN PHASE
50% CONSTRUCTION DOCUMENTS

DRAWING NAME
DETAILS

DRAWING NUMBER
L4.00

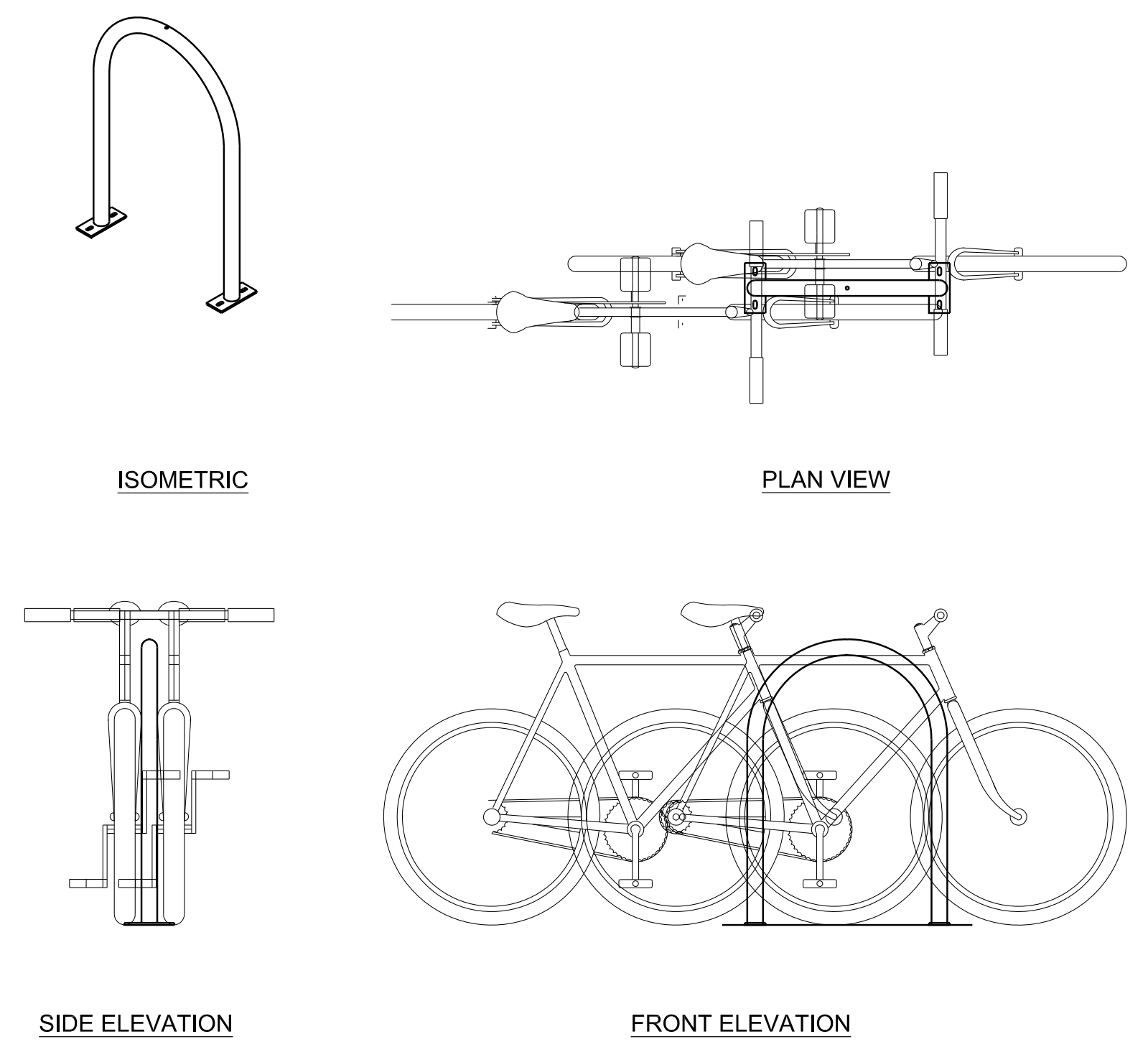


1 BLUESTONE PAVING LAYOUT
ENLARGEMENT
1/4"= 1'-0"

☑ SELECT DESIRED MOUNT:

- ☐ IN GROUND MOUNT
- ☑ SURFACE MOUNT
- ☐ RAIL MOUNT

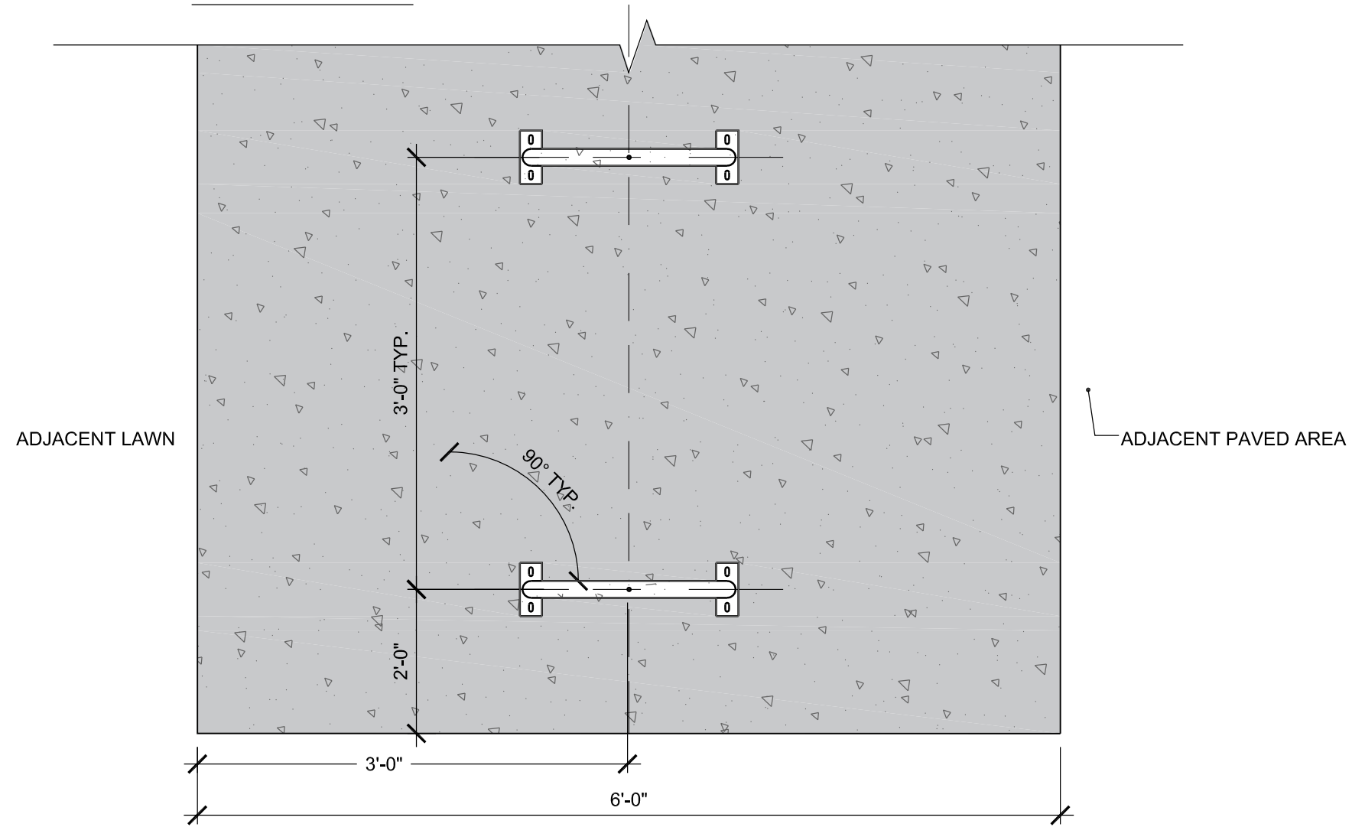
WALL SETBACKS:
FOR RACKS SET PARALLEL TO A WALL:
MINIMUM: 24"
RECOMMENDED: 36"
FOR RACKS SET PERPENDICULAR TO A WALL:
MINIMUM" 28"
RECOMMENDED: 42"
DISTANCE BETWEEN RACKS:
MINIMUM: 24"
RECOMMENDED: 36"
STREET SETBACKS:
MINIMUM: 24"
RECOMMENDED: 36



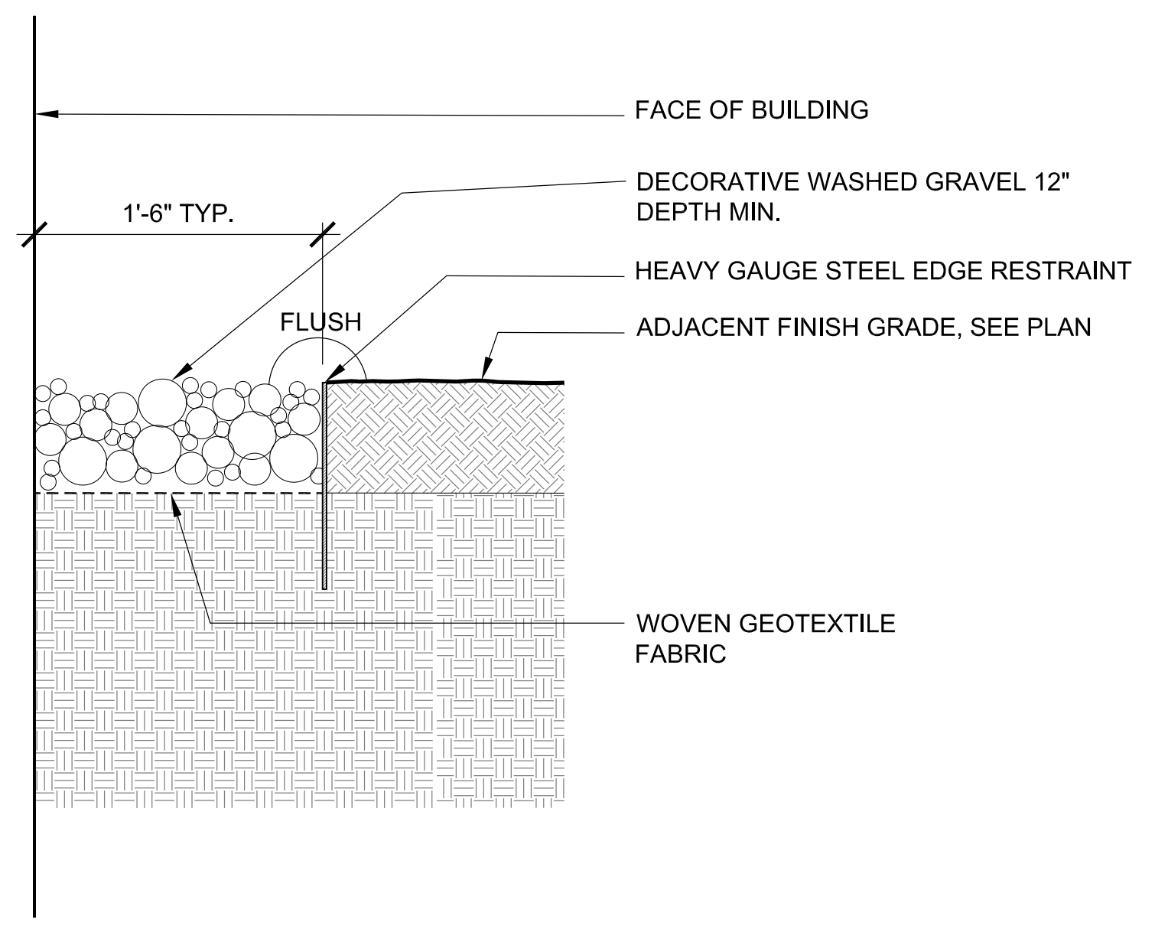
SPECIFICATIONS
CAPACITY: 2 BIKES
MATERIAL: 1.5" SCHEDULE 40 PIPE (1.9" OD)
FINISHES: AN AFTER FABRICATION HOT DIPPED GALVANIZED FINISH IS OUR STANDARD OPTION. 250 TGIC POWDER COAT COLORS, THERMOPLASTIC COATING, PVC DIP, AND STAINLESS STEEL FINISHES ARE ALSO AVAILABLE AS ALTERNATE OPTIONS.

NOTES:
1. PLEASE CONTACT MANUFACTUER FOR FINISHES AND COLORS.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.
4. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
5. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
6. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 118-117.

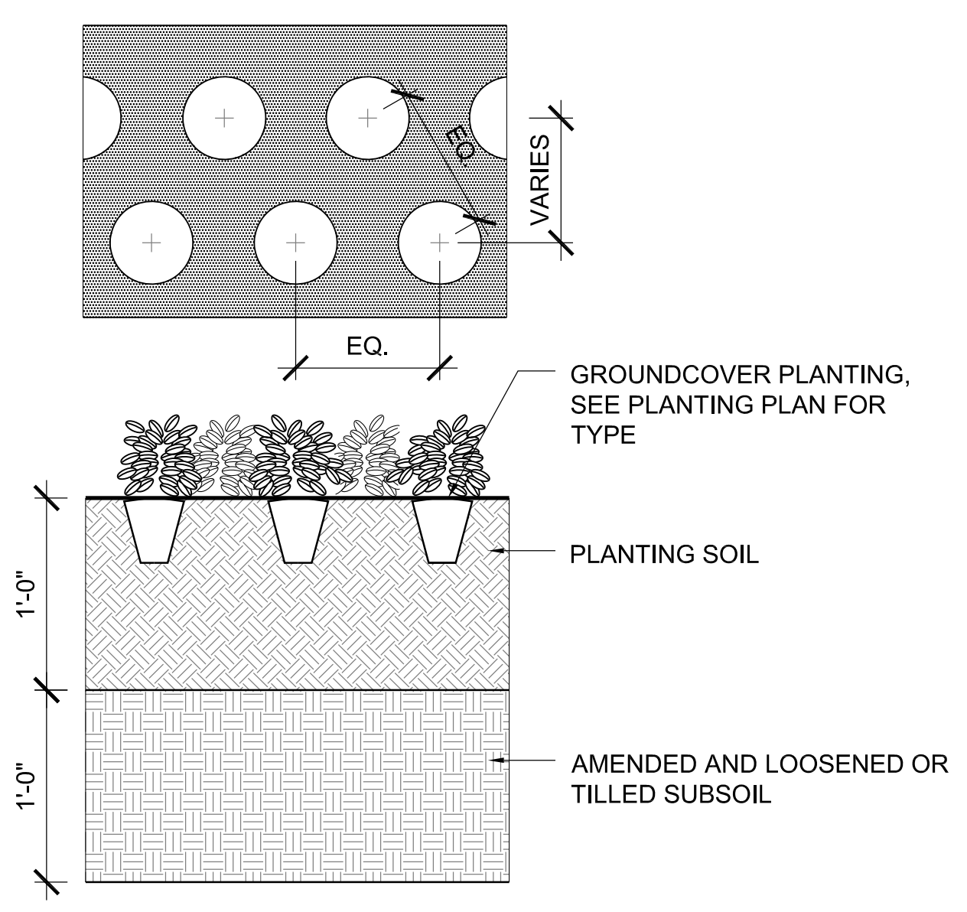
TYPICAL LAYOUT PLAN



2 BICYCLE RACK
3/4"= 1'-0"



3 WASHED STONE DRIP EDGE
SECTION
1"= 1'-0"



4 GROUNDCOVER PLANTING
SECTION
1"= 1'-0"

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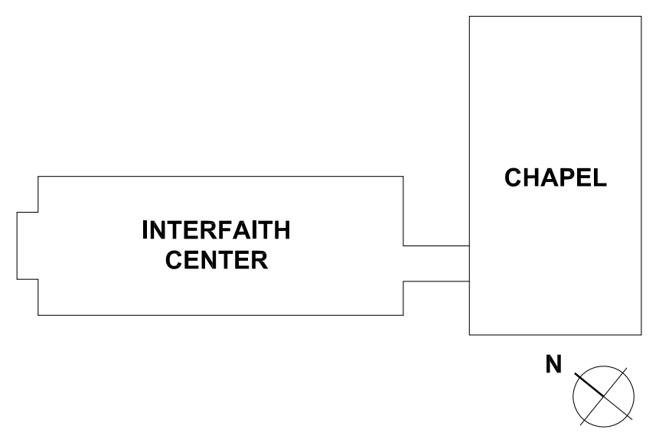

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PROJECT DESIGN PHASE
50% CONSTRUCTION DRAWINGS

DRAWING NAME
DETAILS

DRAWING NUMBER
L4.01

STAPLE EDGE

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