

-DAWSON COUNTY SENIOR CENTER CIVIL DRAWINGS TO FOLLOW-
ATTACHMENT "E"

SITE PHOTOGRAPHS



AERIAL IMAGE



VICINITY MAP



GENERAL NOTES

THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE PERSON OR ENTITIES NAMED HEREON. NO EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE INFORMATION SHOWN HEREON IS TO BE EXTENDED TO ANY PERSONS OR ENTITIES OTHER THAN THOSE SHOWN HEREON.

THIS SURVEY HAS BEEN PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE INSPECTION REPORT. EASEMENTS OR OTHER ENCUMBRANCES MAY EXIST ON PUBLIC RECORD BUT NOT BE SHOWN HEREON.

PLEASE NOTE: GEOSURVEY, LTD., ASSUMES NO LIABILITY REGARDING THE ACCURACY OR LOCATION OF PROPERTY LINES SHOWN HEREON. PROPERTY LINE INFORMATION IS SHOWN AS APPROXIMATE BASED ON DEED BOOK 672, PAGE 296; DEED BOOK 685, PAGE 25; AND MONUMENTS FOUND ON SITE. NO BOUNDARY SURVEY WAS PERFORMED BY GEOSURVEY, LTD.

THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA BASED ON THE FLOOD INSURANCE RATE MAP FOR THIS AREA. THE MAP NUMBER FOR THIS AREA IS 130500303S AND THE DATE OF SAD MAP IS APRIL 4, 2015. THIS DETERMINATION WAS MADE BY GRAPHICALLY DETERMINING THE POSITION OF THIS SITE ON SAID FIRM MAPS UNLESS OTHERWISE NOTED.

THE DATUM FOR THIS SITE WAS ESTABLISHED UTILIZING GLOBAL POSITIONING SYSTEMS, AND BASED ON POSITIONAL VALUES FOR THE VERTICAL REFERENCE STATION NETWORK DEVELOPED BY GPS SOLUTIONS. THE HORIZONTAL REFERENCE FRAME IS NORTH AMERICAN DATUM OF 1983(2011)-STATE PLANE COORDINATE SYSTEM OF GEORGIA-WEST ZONE. THE VERTICAL REFERENCE FRAME IS NORTH AMERICAN VERTICAL DATUM OF 1988. ANY DIRECTIONS OR DIMENSIONS SHOWN ARE A RECTANGULAR GROUND LEVEL PROJECTION OF THE STATE PLANE COORDINATE SYSTEM.

PLEASE NOTE: TREES 8-INCH DBH (DIAMETER AT BREAST HEIGHT) AND LARGER WERE LOCATED FOR THIS SURVEY.

THE SITE IS ZONED "RA" (RESIDENTIAL-AGRICULTURAL DISTRICT) & "PCS" (PLANNED CONSERVATION SUBDIVISION DISTRICT) AS SHOWN ON THE ZONING MAPS OF THE CITY OF DAWSONVILLE AND DAWSON COUNTY.

PLEASE NOTE: ZONING AND SETBACKS SHOULD BE CONFIRMED AND VERIFIED BY PLANNING AND ZONING PRIOR TO DESIGN OR CONSTRUCTION ACTIVITIES.

SURVEY REFERENCES
1- BOUNDARY SURVEY FOR DAWSON COUNTY, PREPARED BY LANDMARK DESIGN ASSOCIATES, RECORDED AS AN EXHIBIT IN DEED BOOK 885, PAGE 25.

UTILITY NOTE

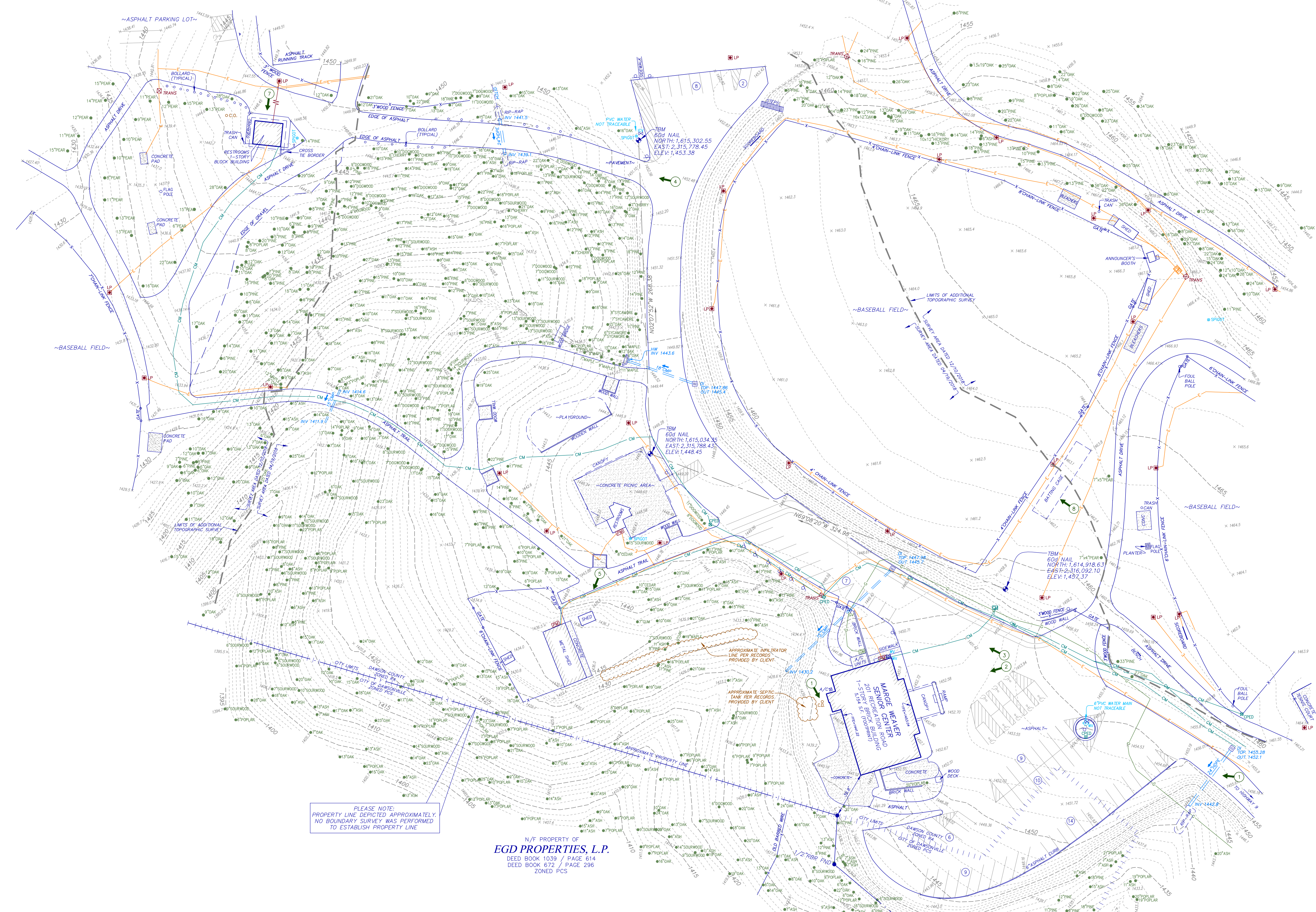
THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON LOCATION OF MARKINGS PROVIDED BY:

UTILISURVEY, LLC
154 GRANT ROAD
FAYETTEVILLE, GA 30215

THE UNDERGROUND UTILITIES (EXCEPT THE LOCATION OF EXISTING DRAINAGE, SEWER AND IRRIGATION UTILITIES AS WELL AS UNDERGROUND STORAGE TANKS) WERE LOCATED BY UTILISURVEY, LLC, UTILIZING RADIO FREQUENCY TECHNIQUE. THIS TECHNIQUE IS CAPABLE OF LOCATING METALLIC UTILITIES AND TRACER WIRES. ANY NON-METALLIC UTILITIES (WITHOUT TRACER WIRE) ARE NOT LOCATED.

THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. UNDERGROUND UTILITIES NOT OBSERVED OR LOCATED UTILIZING THIS TECHNIQUE MAY EXIST ON THIS SITE BUT NOT BE SHOWN, AND MAY BE FOUND UPON EXCAVATION. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

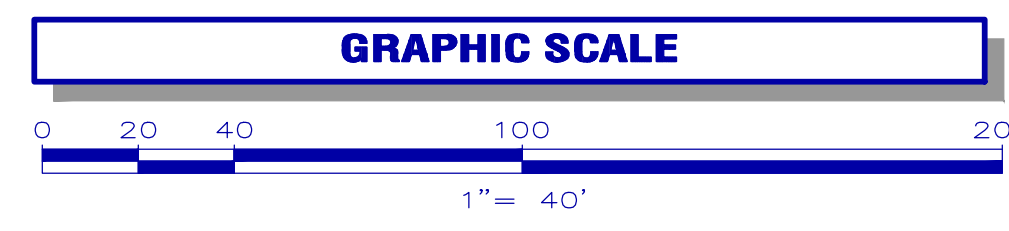
INFORMATION REGARDING MATERIAL AND SIZE OF UTILITIES IS BASED ON RECORDS ACQUIRED FROM THE UTILITY OWNERS.



PLEASE NOTE: PROPERTY LINE DEPICTED APPROXIMATELY. NO BOUNDARY SURVEY WAS PERFORMED TO ESTABLISH PROPERTY LINE.

N/E PROPERTY OF
EGD PROPERTIES, L.P.
DEED BOOK 1039 / PAGE 614
DEED BOOK 672 / PAGE 296
ZONED PCS

LEGEND	
STANDARD ABBREVIATIONS	STANDARD SYMBOLS
AC AIR CONDITIONER	OT OVERHEAD TRAFFIC SIGNAL LIGHT
BH BONE HOLE	PP POWER POLE
BSL BUILDING SETBACK LINE	GW GUY WIRE
CI CORRUGATED METAL PIPE	PL POWER LINE
CMP CONCRETE MONUMENT FND	LP LIGHT POLE
CO SANITARY CLEANOUT	ET ELECTRIC TRANSFORMER
CPED COMMUNICATION PEDESTAL	
CTP CROWNED TOP PIPE	
DI DUCTILE IRON PIPE	WV WATER VAULT
DWB DOUBLE WING CATCH BASIN	GV GAS VALVE
FNC FENCE	GM GAS METER
FND FOUND	WV WATER VALVE
GM GAS METER	WM WATER METER
INV INVERT	FE FIRE HYDRANT
JB JUNCTION BOX	UE UNDERGROUND ELECTRIC LINE
MH MANHOLE	UG UNDERGROUND GAS LINE
OCS OUTLET CONTROL STRUCTURE	UC UNDERGROUND COMMUNICATION LINE
OTP OPEN TOP PIPE	UL UNDERGROUND WATER LINE
PM POWER METER	PI PHOTO POSITION INDICATOR
PK PK NAIL SET	
POB POINT OF BEGINNING	
POC POINT OF COMMENCEMENT	
RPC REINFORCED CONCRETE PIPE	
RFB RIB FROM REINFORCING BAR	
RBS 5/8" RIB SET CAPPED LSF 621	
SS SANITARY SEWER	
SWB SINGLE WING CATCH BASIN	
TRANS ELECTRIC TRANSFORMER	



CLOSURE STATEMENT

THE FIELD CLOSURE UPON WHICH THIS PLAN IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 250,000, AND WAS ADJUSTED USING THE LEAST SQUARES METHOD. A TRIMBLE S-6 TOTAL STATION AND TRIMBLE PSC-3 DATA COLLECTOR WERE USED TO COLLECT THIS FIELD DATA.

IF YOU DIG

811 Know what's below. Call before you dig. Dial 811
Or Call 800-282-7411

GeoSurvey, Ltd.

Land Surveying • 3D Laser Scanning

1660 Barnes Mill Road
Marietta, Georgia 30062

Phone: (770) 795-9900
Fax: (770) 795-8880

www.geosurvey.com
EMAIL: info@geosurvey.com
Certificate of Authorization #LSF-000621

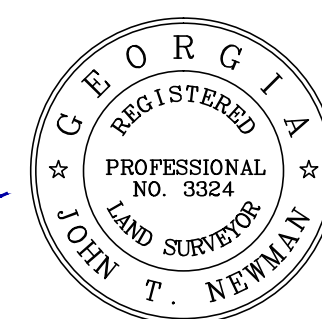
PARTIAL TOPOGRAPHIC SURVEY OF

Veterans Memorial Park

FOR

Dawson County Parks And Recreation

GS JOB NO:	20185781	DRAWING SCALE:	1" = 40'	SURVEY DATE:	04-19-2018
FIELD WORK:	CM	CITY:	DAWSONVILLE & UNINCORPORATED	REVISIONS:	
PROJ. MGR.:	JTN	COUNTY:	DAWSON STATE: GA	No. Date Description	
REVIEWED:	JRC	LAND LOT:	248 & 249	1: 12-10-18 Add two additional survey areas	
DWG FILE:	20185781-01.dwg	DISTRICT:	137H		



3/06/2019 11:01 AM
SHEET NAME: DEMOLITION PLAN SHEET NUMBER: C-0 PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION
FILENAME: F:\121 029 Dawson Senior Center - Dawson County, GA\DWG\C-0 Demolition Plan.dwg

GENERAL NOTES:

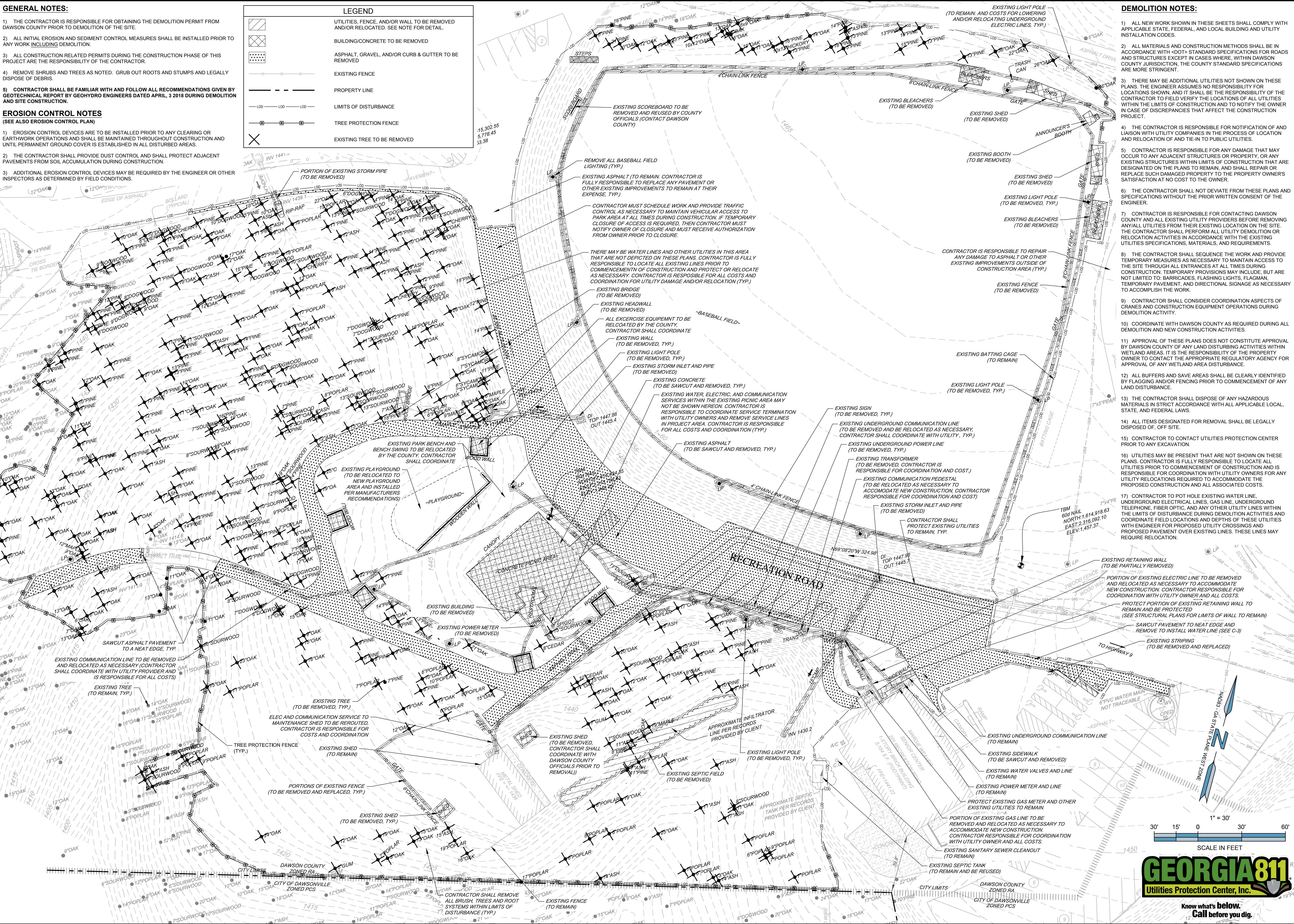
- 1) THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE DEMOLITION PERMIT FROM DAWSON COUNTY PRIOR TO DEMOLITION OF THE SITE.
- 2) ALL INITIAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY WORK INCLUDING DEMOLITION.
- 3) ALL CONSTRUCTION RELATED PERMITS DURING THE CONSTRUCTION PHASE OF THIS PROJECT ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4) REMOVE SHRUBS AND TREES AS NOTED. GRUB OUT ROOTS AND STUMPS AND LEGALLY DISPOSE OF DEBRIS.
- 5) CONTRACTOR SHALL BE FAMILIAR WITH AND FOLLOW ALL RECOMMENDATIONS GIVEN BY GEOTECHNICAL REPORT BY GEOHYDRO ENGINEERS DATED APRIL, 3 2018 DURING DEMOLITION AND SITE CONSTRUCTION.

EROSION CONTROL NOTES
(SEE ALSO EROSION CONTROL PLAN)

- 1) EROSION CONTROL DEVICES ARE TO BE INSTALLED PRIOR TO ANY CLEARING OR EARTHWORK OPERATIONS AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND UNTIL PERMANENT GROUND COVER IS ESTABLISHED IN ALL DISTURBED AREAS.
- 2) THE CONTRACTOR SHALL PROVIDE DUST CONTROL AND SHALL PROTECT ADJACENT PAVEMENTS FROM SOIL ACCUMULATION DURING CONSTRUCTION.
- 3) ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED BY THE ENGINEER OR OTHER INSPECTORS AS DETERMINED BY FIELD CONDITIONS.

LEGEND

- UTILITIES, FENCE, AND/OR WALL TO BE REMOVED AND/OR RELOCATED. SEE NOTE FOR DETAIL.
- BUILDING/CONCRETE TO BE REMOVED
- ASPHALT, GRAVEL, AND/OR CURB & GUTTER TO BE REMOVED
- EXISTING FENCE
- PROPERTY LINE
- LIMITS OF DISTURBANCE
- TREE PROTECTION FENCE
- EXISTING TREE TO BE REMOVED



DEMOLITION NOTES:

- 1) ALL NEW WORK SHOWN IN THESE SHEETS SHALL COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL BUILDING AND UTILITY INSTALLATION CODES.
- 2) ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH <DOT> STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES EXCEPT IN CASES WHERE, WITHIN DAWSON COUNTY JURISDICTION, THE COUNTY STANDARD SPECIFICATIONS ARE MORE STRINGENT.
- 3) THERE MAY BE ADDITIONAL UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS SHOWN, AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND TO NOTIFY THE OWNER IN CASE OF DISCREPANCIES THAT AFFECT THE CONSTRUCTION PROJECT.
- 4) THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION OF AND LIAISON WITH UTILITY COMPANIES IN THE PROCESS OF LOCATION AND RELOCATION OF AND TIE-IN TO PUBLIC UTILITIES.
- 5) CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE THAT MAY OCCUR TO ANY ADJACENT STRUCTURES OR PROPERTY, OR ANY EXISTING STRUCTURES UNDER LIMITS OF CONSTRUCTION THAT ARE DESIGNATED ON THE PLANS TO REMAIN, AND SHALL REPAIR OR REPLACE SUCH DAMAGED PROPERTY TO THE PROPERTY OWNERS SATISFACTION AT NO COST TO THE OWNER.
- 6) THE CONTRACTOR SHALL NOT DEVIATE FROM THESE PLANS AND SPECIFICATIONS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ENGINEER.
- 7) CONTRACTOR IS RESPONSIBLE FOR CONTACTING DAWSON COUNTY AND ALL EXISTING UTILITY PROVIDERS BEFORE REMOVING ANY UTILITIES FROM THEIR EXISTING LOCATION ON THE SITE. THE CONTRACTOR SHALL PERFORM ALL UTILITY DEMOLITION OR RELOCATION ACTIVITIES IN ACCORDANCE WITH THE EXISTING UTILITIES SPECIFICATIONS, MATERIALS, AND REQUIREMENTS.
- 8) THE CONTRACTOR SHALL SEQUENCE THE WORK AND PROVIDE TEMPORARY MEASURES AS NECESSARY TO MAINTAIN ACCESS TO THE SITE THROUGH ALL ENTRANCES AT ALL TIMES DURING CONSTRUCTION. TEMPORARY PROVISIONS MAY INCLUDE, BUT ARE NOT LIMITED TO BARRICADES, FLASHING LIGHTS, FLAGMAN, TEMPORARY PAVEMENT, AND DIRECTIONAL SIGNAGE AS NECESSARY TO ACCOMPLISH THE WORK.
- 9) CONTRACTOR SHALL CONSIDER COORDINATION ASPECTS OF CRANES AND CONSTRUCTION EQUIPMENT OPERATIONS DURING DEMOLITION ACTIVITY.
- 10) COORDINATE WITH DAWSON COUNTY AS REQUIRED DURING ALL DEMOLITION AND NEW CONSTRUCTION ACTIVITIES.
- 11) APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY DAWSON COUNTY OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND AREA DISTURBANCE.
- 12) ALL BUFFERS AND SAVE AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
- 13) THE CONTRACTOR SHALL DISPOSE OF ANY HAZARDOUS MATERIALS IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.
- 14) ALL ITEMS DESIGNATED FOR REMOVAL SHALL BE LEGALLY DISPOSED OF, OFF SITE.
- 15) CONTRACTOR TO CONTACT UTILITIES PROTECTION CENTER PRIOR TO ANY EXCAVATION.
- 16) UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THESE PLANS. CONTRACTOR IS FULLY RESPONSIBLE TO LOCATE ALL UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND IS RESPONSIBLE FOR COORDINATION WITH UTILITY OWNERS FOR ANY UTILITY RELOCATIONS REQUIRED TO ACCOMMODATE THE PROPOSED CONSTRUCTION AND ALL ASSOCIATED COSTS.
- 17) CONTRACTOR TO POT HOLE EXISTING WATER LINE, UNDERGROUND ELECTRICAL LINES, GAS LINE, UNDERGROUND TELEPHONE, FIBER OPTIC, AND ANY OTHER UTILITY LINES WITHIN THE LIMITS OF DISTURBANCE DURING DEMOLITION ACTIVITIES AND COORDINATE FIELD LOCATIONS AND DEPTHS OF THESE UTILITIES WITH ENGINEER FOR PROPOSED UTILITY CROSSINGS AND PROPOSED PAVEMENT OVER EXISTING LINES. THESE LINES MAY REQUIRE RELOCATION.

DESIGNING ARCHITECT

WAKEFIELD BEASLEY & ASSOCIATES

A NELSON Company

ARCHITECT OF RECORD

NELSON

Nelco Architecture, Inc.
a licensed affiliate of Nelson Worldwide, LLC.

FORESITE group

REGISTERED PROFESSIONAL ENGINEER

JACK MCGOWAN JOHNSON

3/08/19

DAWSON COUNTY SENIOR CENTER AND PAVILION

201 RECREATION RD
DAWSONVILLE, GA 30534

COPYRIGHT AND REPRODUCTION NOTICE

© 2018 Wakefield Beasley & Associates Architects, Inc. These drawings are protected by the copyright laws of the United States. These drawings or any part thereof may not be used for any purpose or reproduced in any form or by any means without the written consent of WBA.

Print Record

2019-01-14 SCHEMATIC DESIGN PACKAGE

2019-02-04 BID PACKAGE

2019-03-08 GRANT REVIEW DOCUMENTS

Revisions

No.	Date	Description

RELEASED FOR CONSTRUCTION

DATE

PROJECT NUMBER

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

C-0

1" = 30'

30' 15' 0 30' 60'

SCALE IN FEET

GEORGIA811

Utilities Protection Center, Inc.

Know what's below.
Call before you dig.

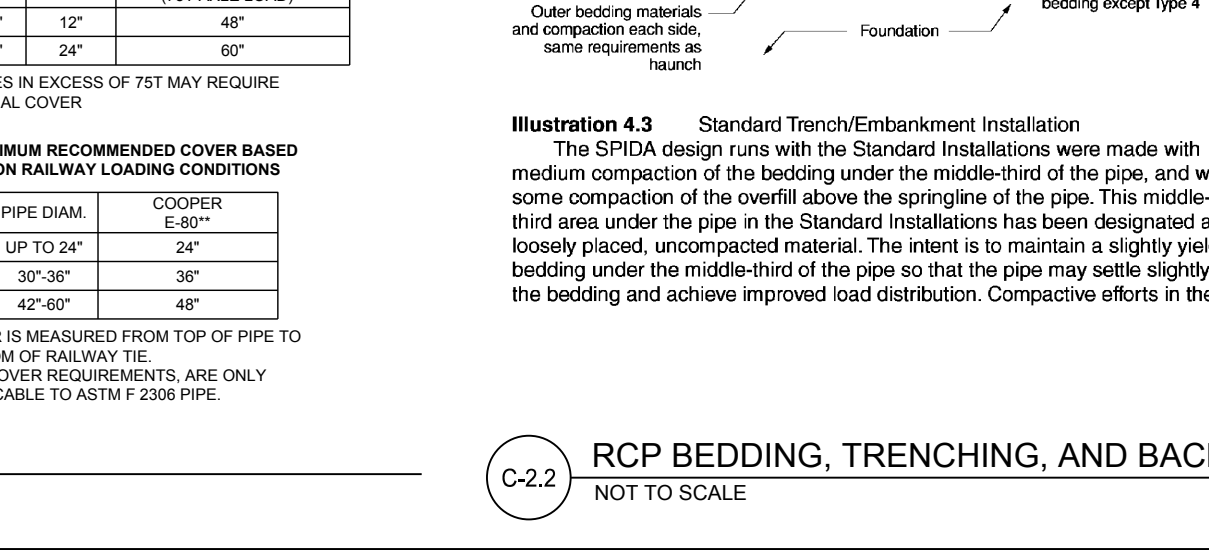
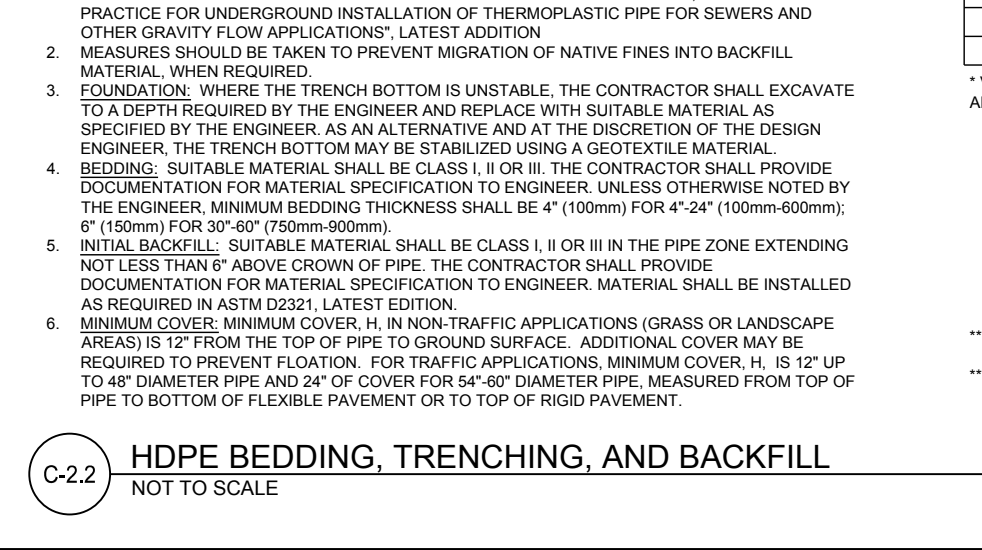
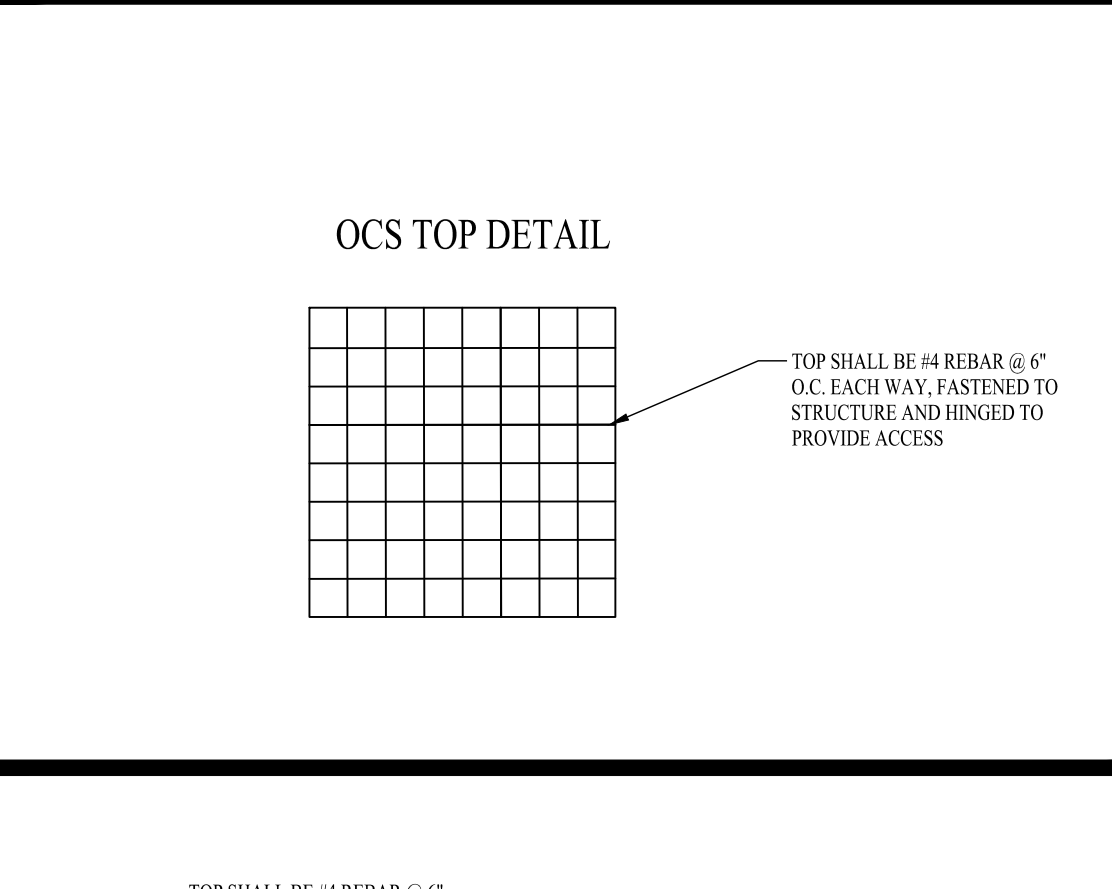
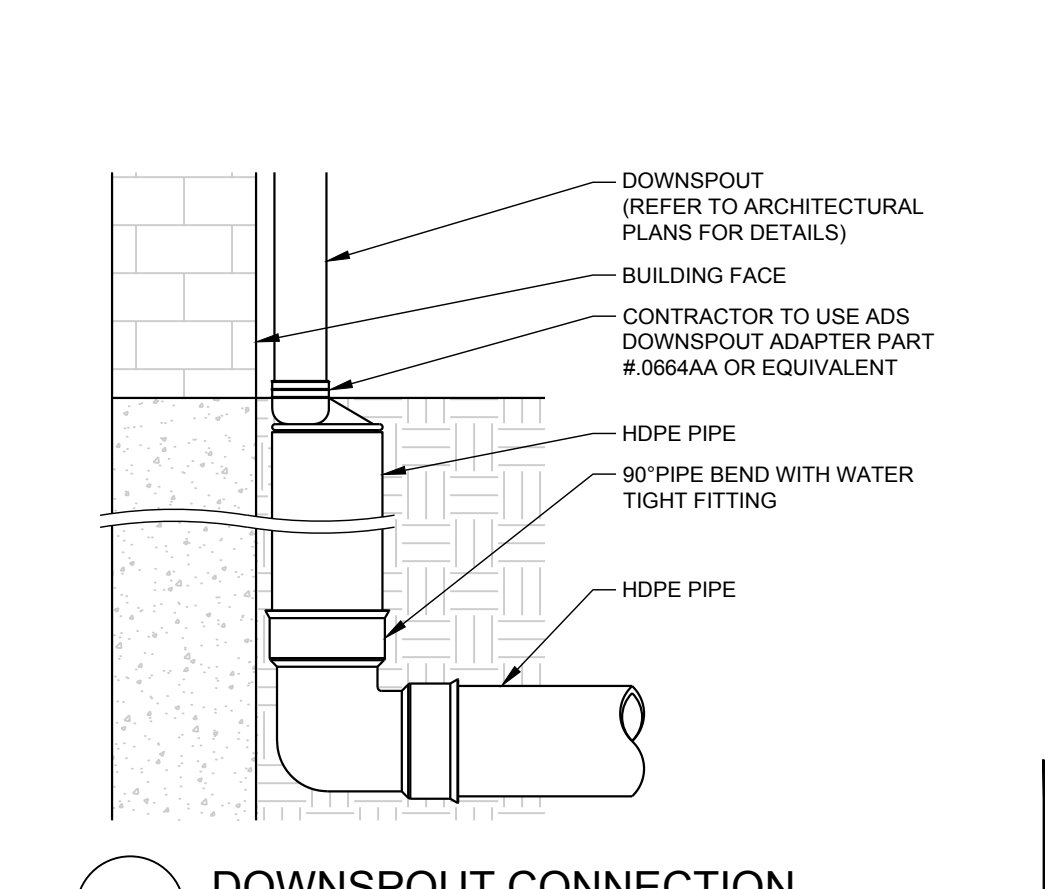
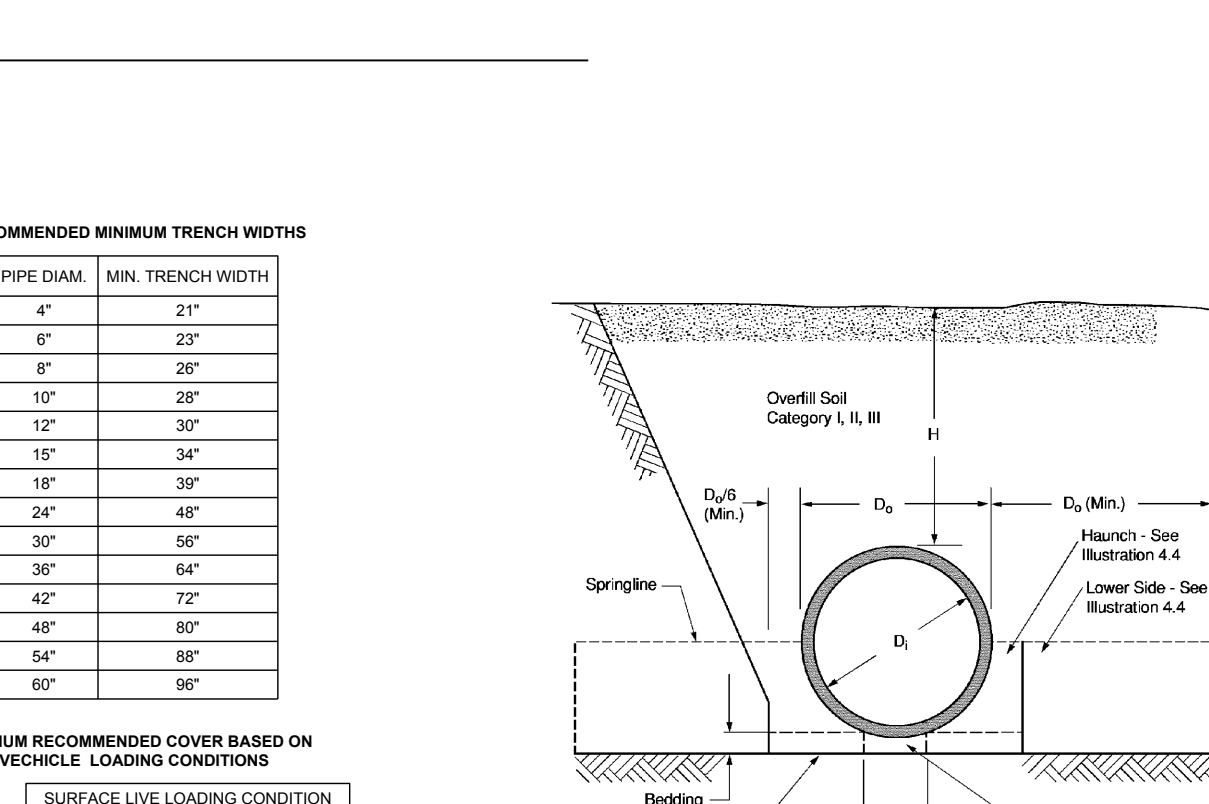
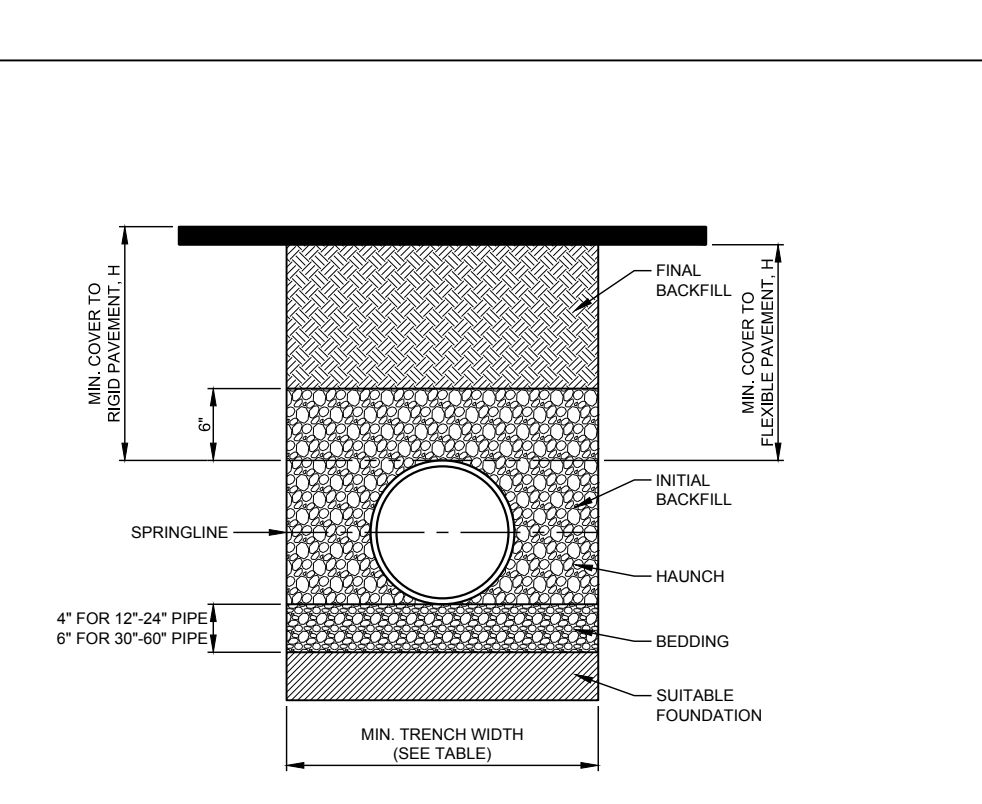
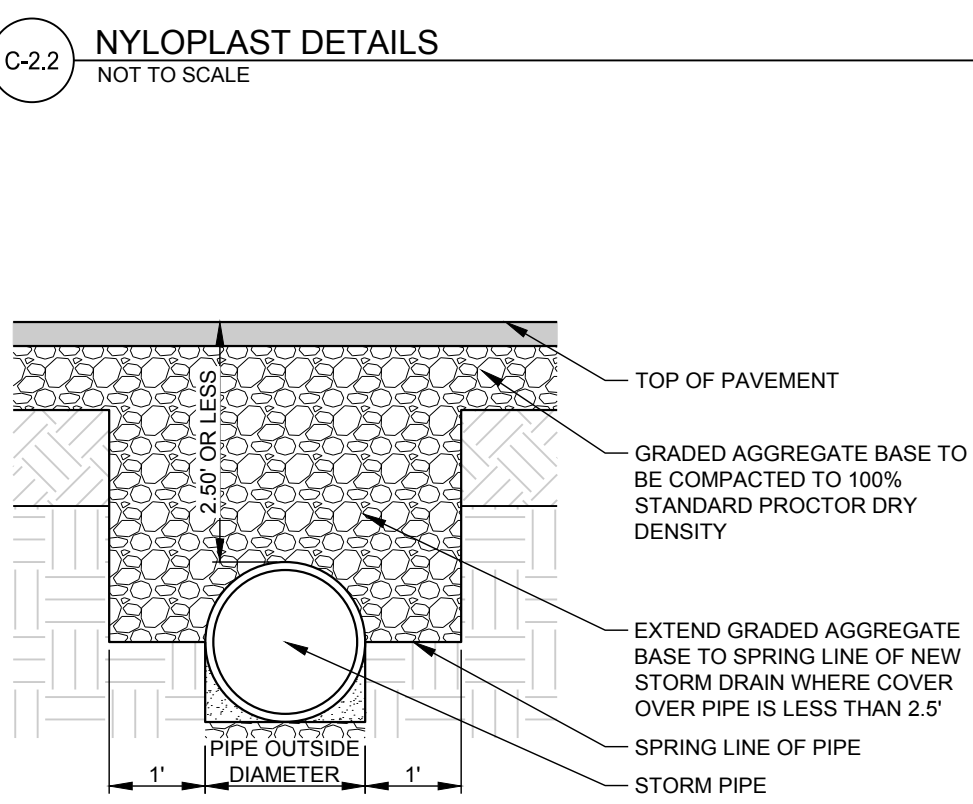
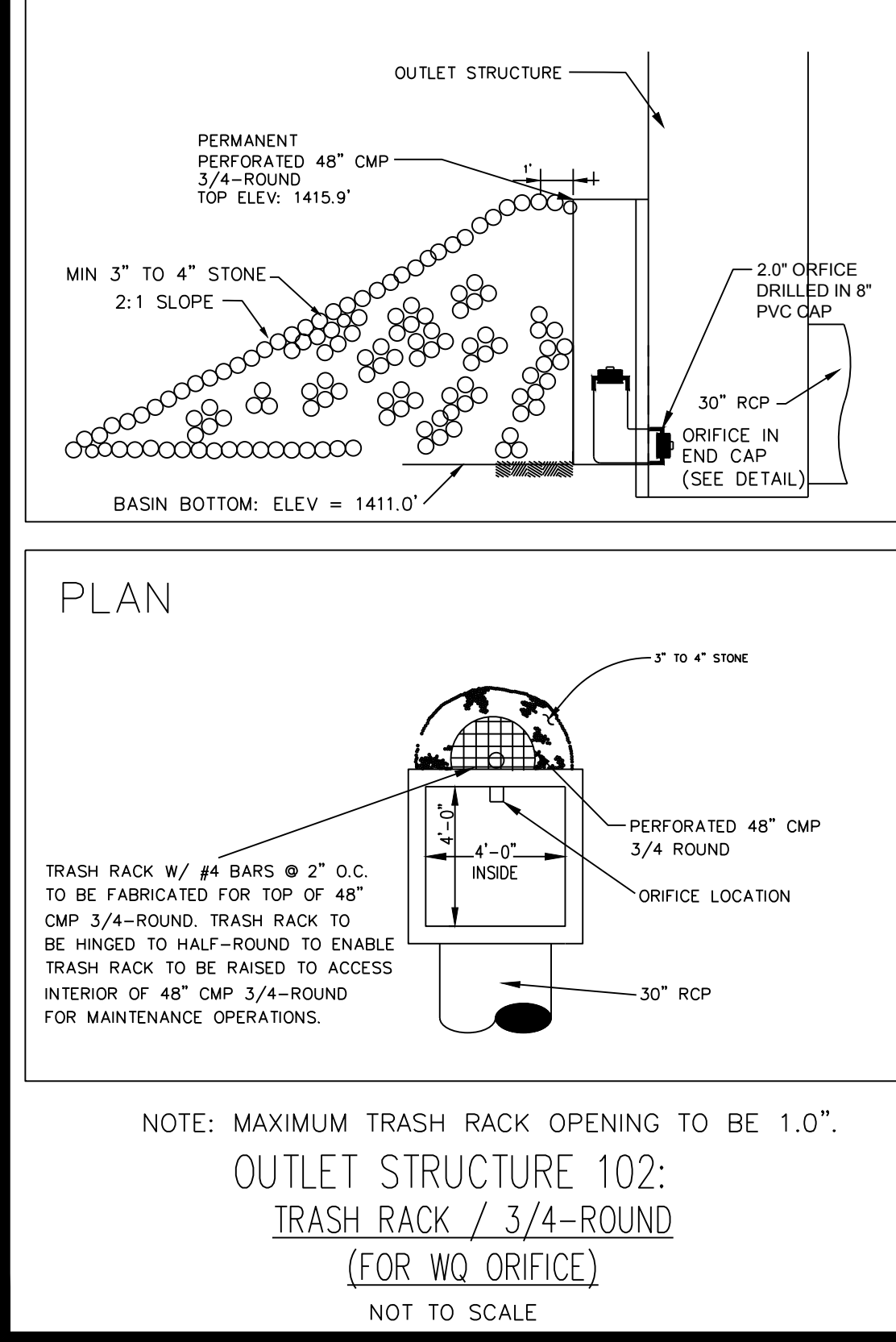
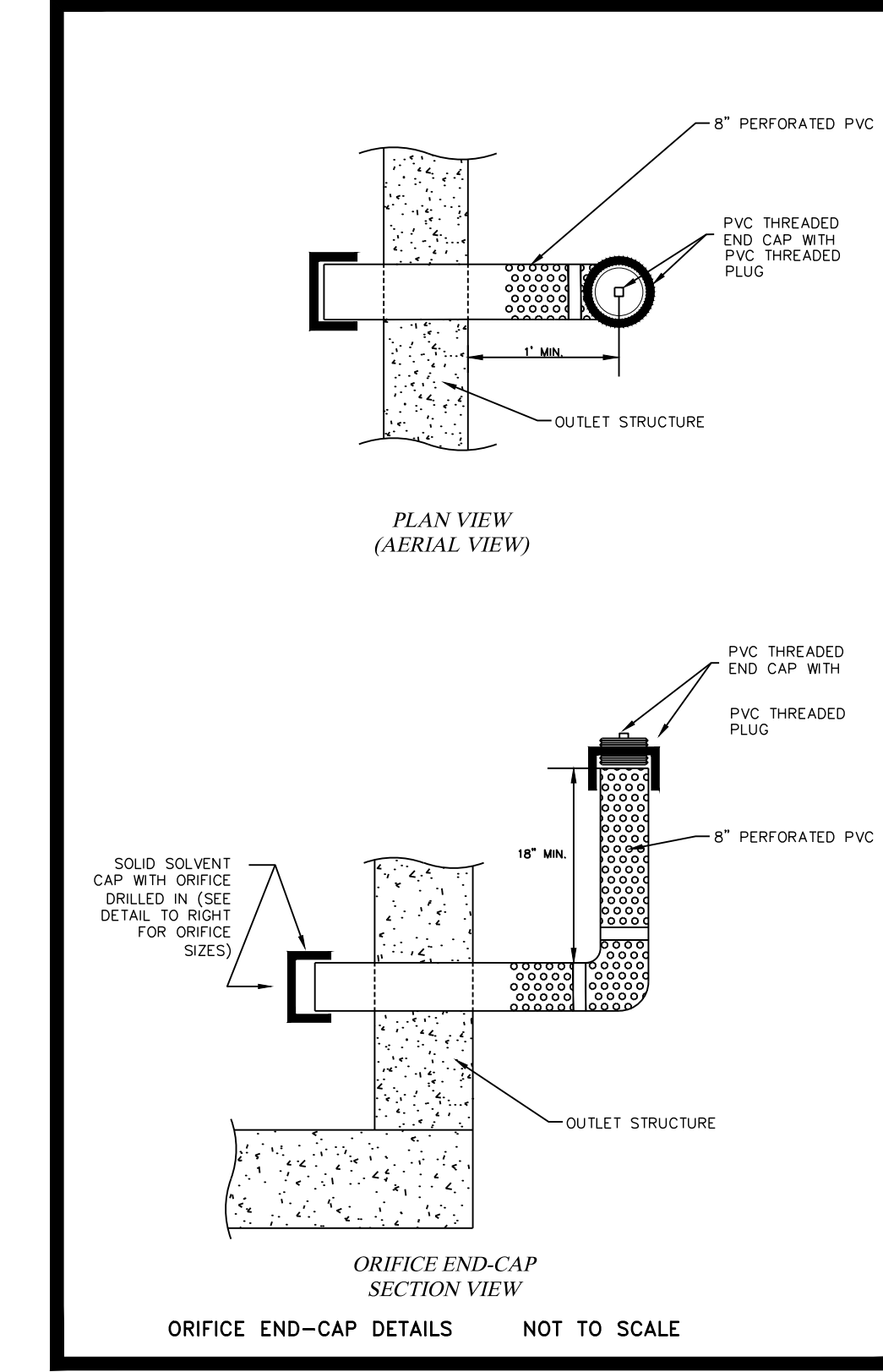
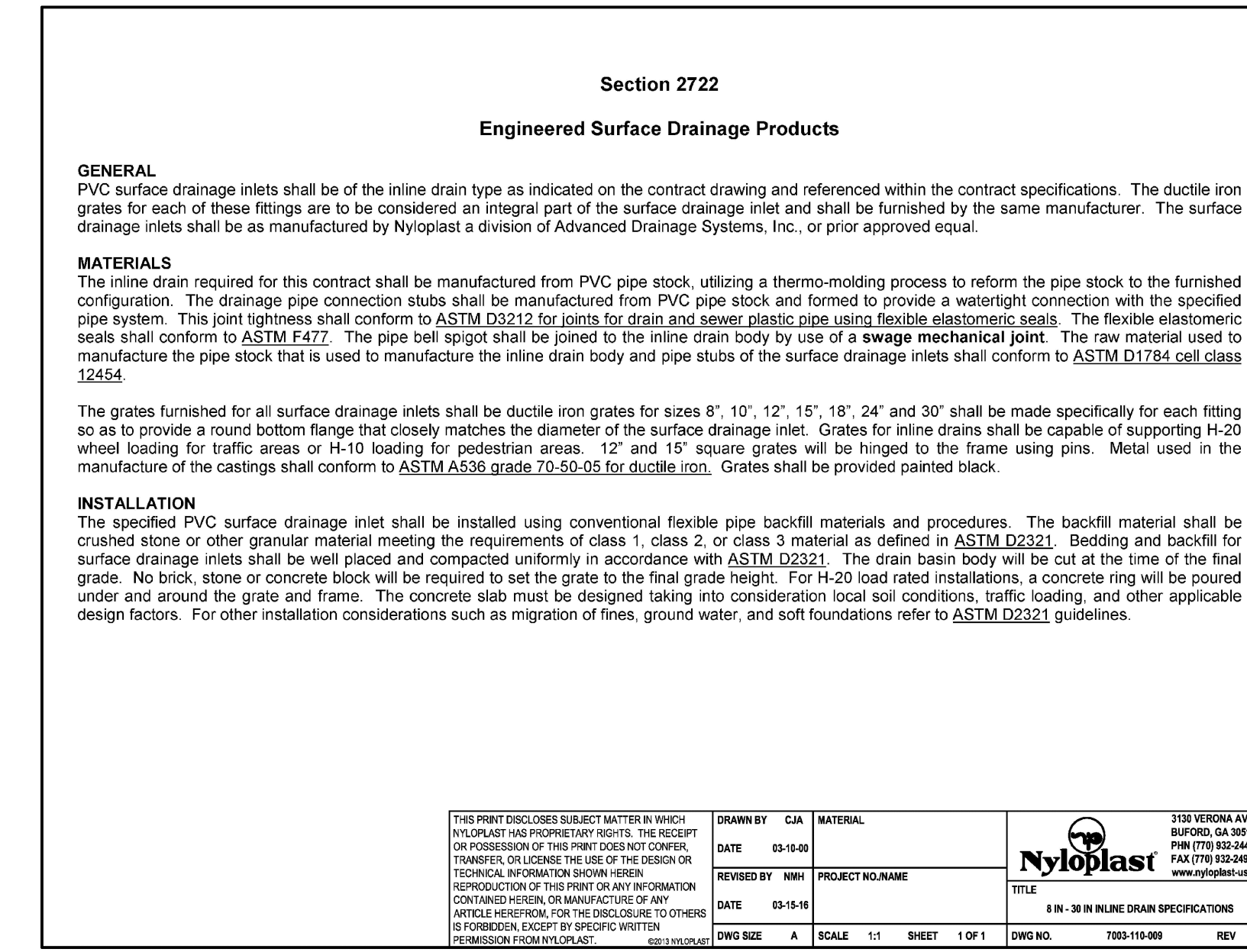
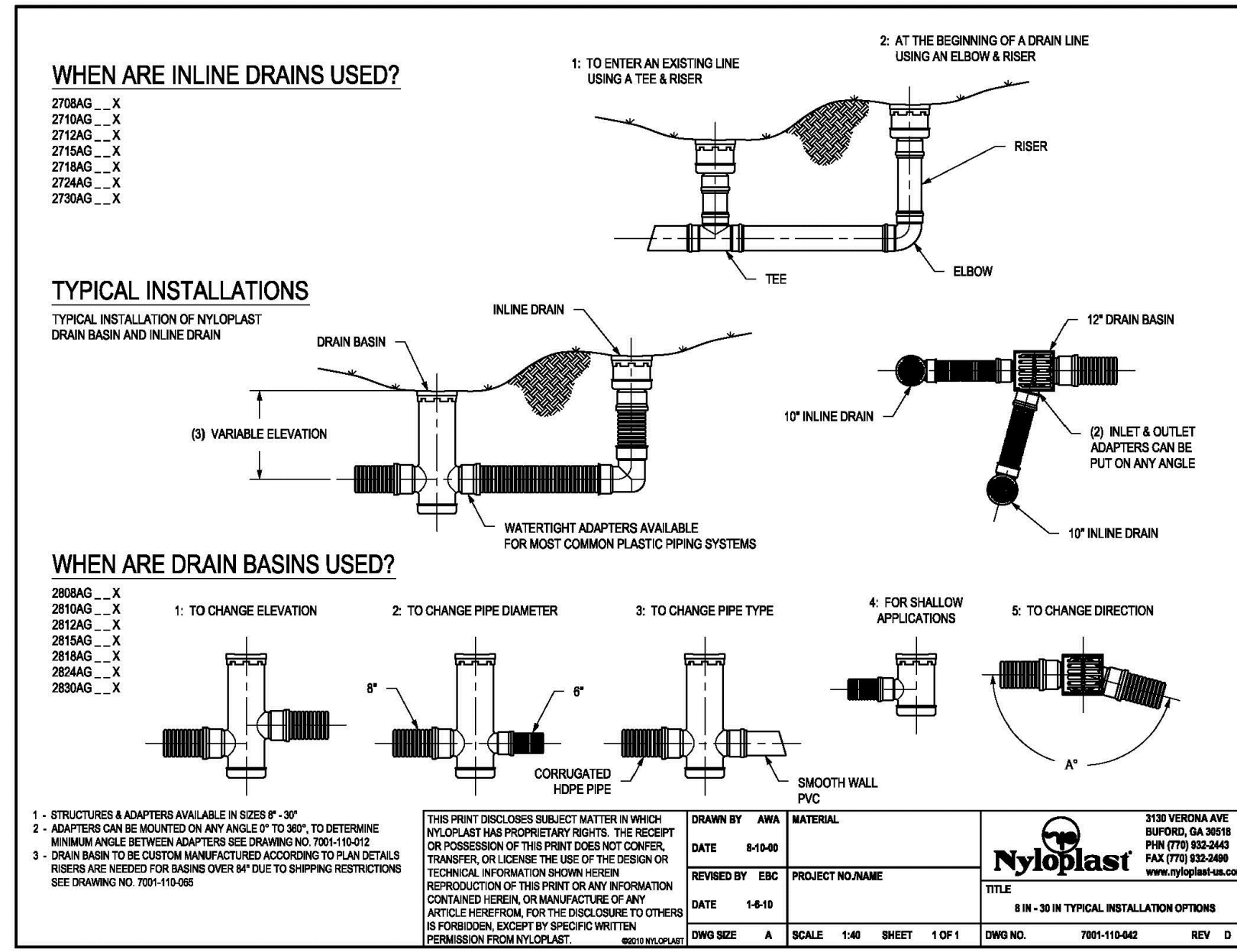
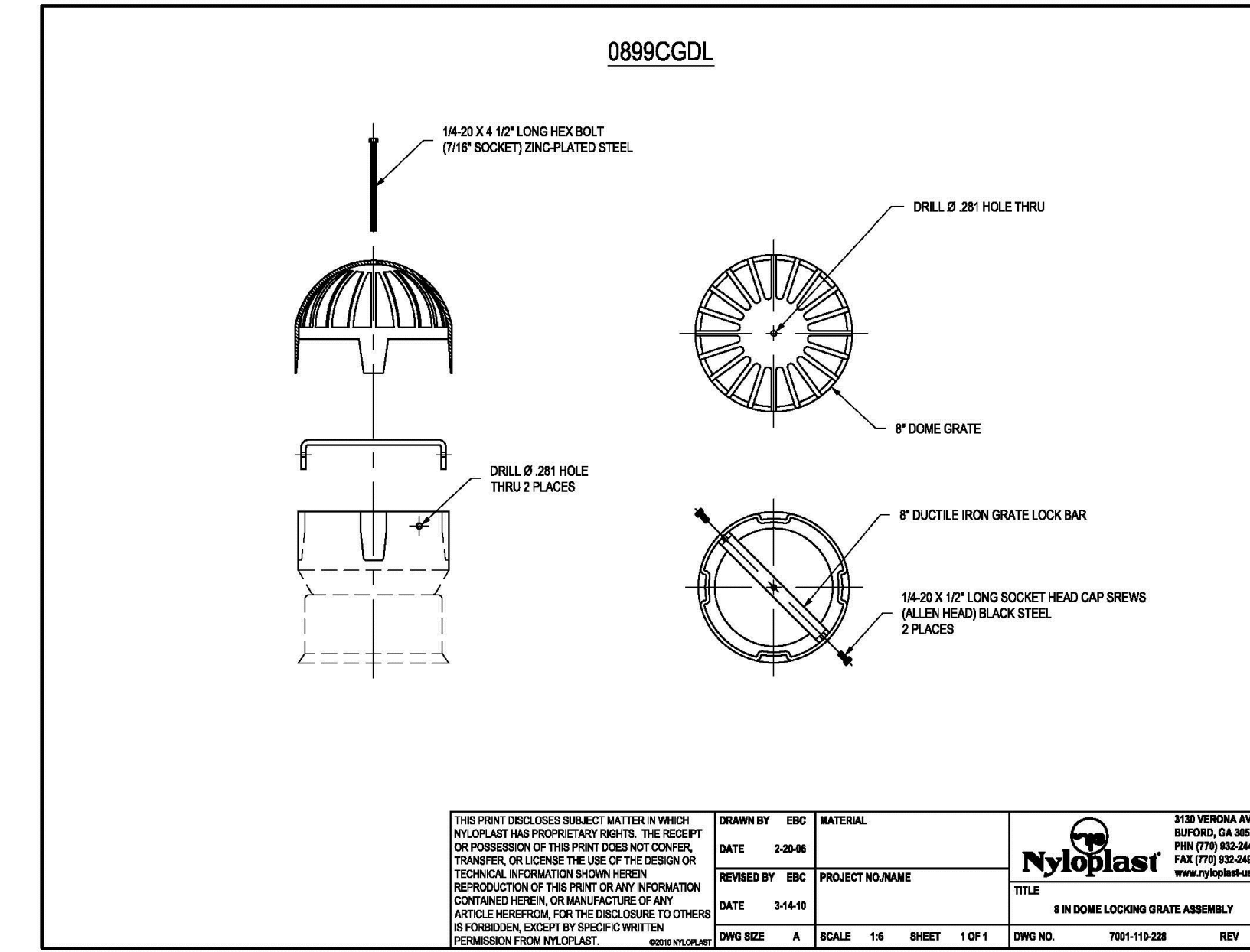
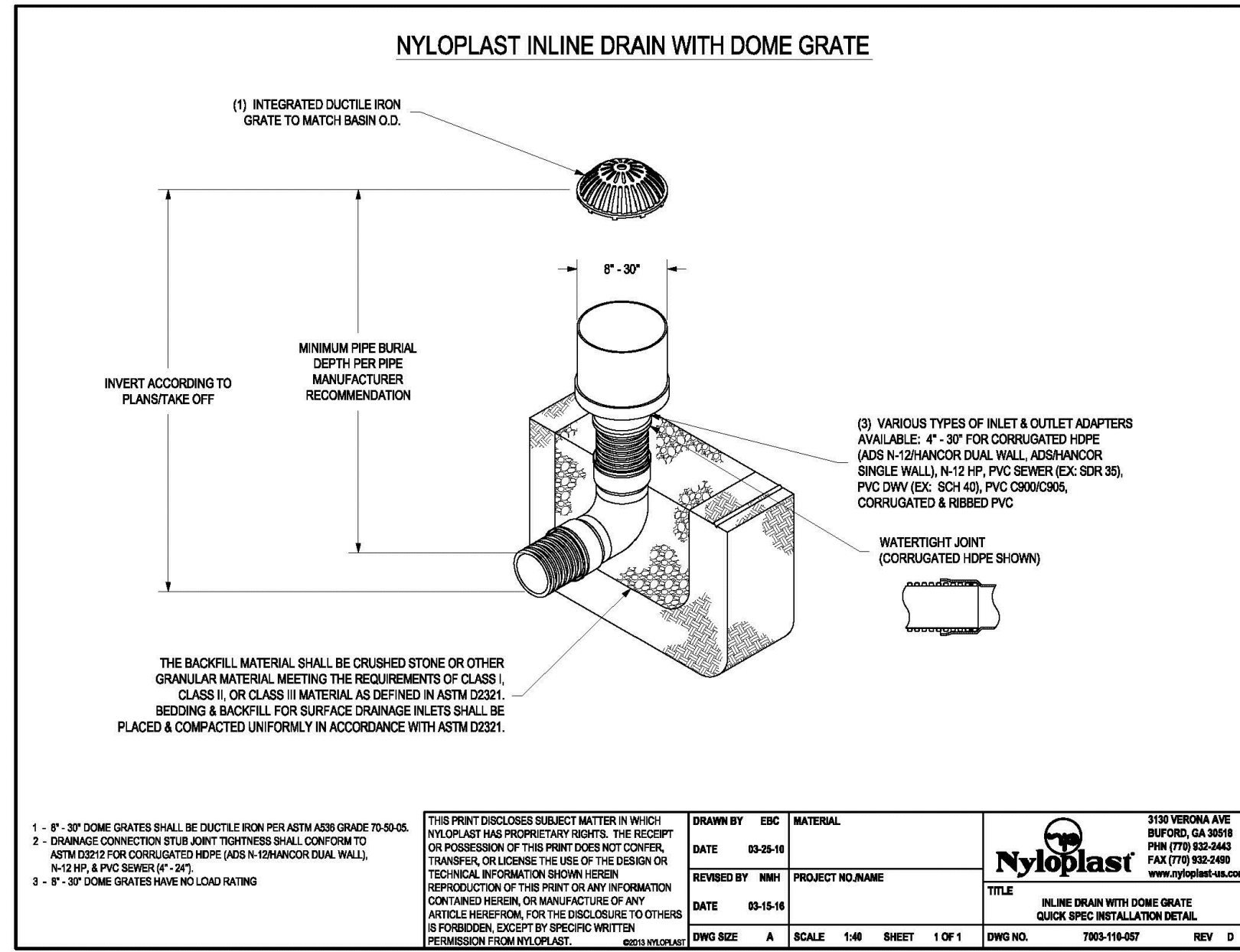
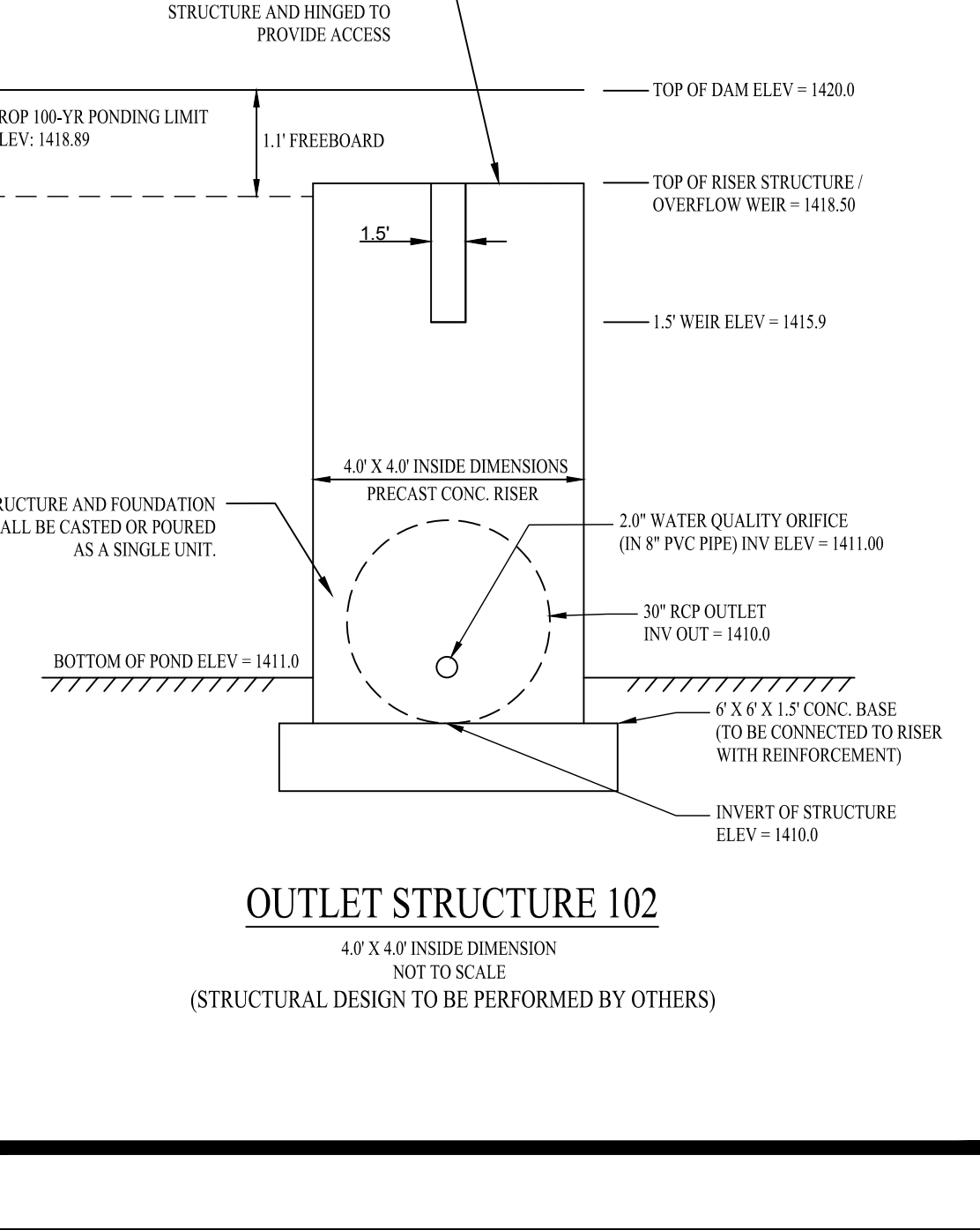


Table with 4 columns: Installation Type, Bedding Thickness, Haunch and Outer Bedding, Lower Side. Rows 1-4 describe different installation types and their requirements.



A NELSON Company

ARCHITECT OF RECORD



Nelco Architecture, Inc. a licensed affiliate of Nelson Worldwide, LLC.



DAWSON COUNTY SENIOR CENTER AND PAVILION 201 RECREATION RD DAWSONVILLE, GA 30534

Copyright and reproduction notice.

Print Record 2019-01-14 SCHEMATIC DESIGN PACKAGE 2019-02-04 BID PACKAGE 2019-03-08 GRANT REVIEW DOCUMENTS

Revisions table with columns: No., Date, Description.

RELEASED FOR CONSTRUCTION

DATE PROJECT NUMBER SHEET TITLE STORM DRAINAGE DETAILS SHEET NUMBER

C-2.2



Know what's below. Call before you dig.

3/20/2019 9:24:19 PM SHEET NAME: EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES CONTROL NUMBER: C-4.2 PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION COUNTY SENIOR CENTER EXPANSION

CONSTRUCTION SEQUENCE (PART IV.D.1)

THE FOLLOWING SEQUENCE OF ACTIVITIES ARE TO BE IMPLEMENTED IN THE ORDER SHOWN, UNLESS INCLEMENT WEATHER, SITE CONDITIONS, REVISIONS, RECOMMENDATIONS FROM THE PRE-CONSTRUCTION CONFERENCE, OR OTHER REASON JUSTIFIES A DEVIATION FROM THE SCHEDULE. IF A DEVIATION IS UNDERTAKEN OR ANTICIPATED, THE LOCAL JURISDICTION SHALL BE NOTIFIED AND THE CHANGE OF SEQUENCE RECORDED IN THE DAILY LOG.

PHASE-I: CLEARING, GRADING, DEMOLITION, AND INSTALLATION OF INITIAL BMP'S

- 1) OBTAIN AND POST A COPY OF THE LAND DISTURBANCE PERMIT ON THE SITE. A COPY OF THE FILED NOTICE OF INTENT (NOI) AND DELIVERY RETURN RECEIPT SHOULD BE STORED WITH THE APPROVED CONSTRUCTION PLANS ON-SITE, ALONG WITH SETTING UP STORAGE FOR THE DAILY SAMPLING LOG AND FILING FOR REPORTS REQUIRED BY THE NPDES PERMIT. LAND DISTURBANCE CANNOT COMMENCE LESS THAN 14 DAYS FROM THE DATE ON THE DELIVERY RECEIPT.
2) SET UP A PRE-CONSTRUCTION CONFERENCE ON-SITE WITH THE OWNER, CONTRACTOR, DESIGN TEAM MEMBERS AS NEEDED, AND LOCAL ISSUING AUTHORITY TO REVIEW CONSTRUCTION REQUIREMENTS.
3) COORDINATE THE DISCONNECTION AND REMOVAL OF ANY EXISTING UTILITIES ON-SITE TO BE REMOVED OR ABANDONED. FIELD CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BY POT-HOULING.
4) STAKE LIMITS OF DISTURBED AREA AND TREE PROTECTION AREAS.
5) INSTALL TREE SAVE FENCINGS TO DELINEATE BUFFER AND TREE SAVE AREAS AS SHOWN ON THE PLAN.
6) CONSTRUCT THE CONSTRUCTION ENTRANCE(S) AT THE PROPOSED LOCATION(S) SHOWN ON THE PLANS. (TEMPORARY STREET ACCESS PERMITS MAY BE REQUIRED.)
7) INSTALL ALL PERIMETER SILT BARRIERS AS SHOWN ON THE PHASE-I PLAN SHEETS.
8) CLEAR AND GRUB ROUTES TO THE MINIMUM EXTENT NEEDED TO CONSTRUCT STRUCTURAL BEST MANAGEMENT PRACTICES IN CONCENTRATED FLOW AREAS SHOWN ON THE INITIAL PHASE PLAN. THIS INCLUDES EXCAVATED SEDIMENT TRAPS, SEDIMENT BASINS, ROCK DAMS, SILT GATES, AND DIVERSIONS.
9) INSTALL STRUCTURAL BMP'S IN CONCENTRATED FLOW AREAS WITH MINIMAL DISTURBANCE TO ADJACENT AREAS.
10) INSTALL SKIMMER DEVICES ON STRUCTURAL BMP'S AS SHOWN ON THE INITIAL PHASE PLANS.
11) COMMENCE CLEARING, GRUBBING, AND DEMOLITION OPERATIONS. CONSTRUCT ALL REMAINING BMP'S SHOWN ON THE PHASE-I PLANS CONCURRENT WITH CLEARING AND GRUBBING OPERATIONS.
12) COMMENCE DEMOLITION ACTIVITY CONCURRENT WITH CLEARING AND GRUBBING ACTIVITY. CONSTRUCTION DEBRIS SHOULD BE SORTED FROM VEGETATIVE DEBRIS FOR PROPER DISPOSAL.
13) APPLY TEMPORARY VEGETATION (Dx1/Dx2) IN ACCORDANCE WITH PLANS AND NOTES FOR CLEARED AREAS.

PHASE-II: GRADING AND UTILITY CONSTRUCTION

- 1) CONSTRUCT ALL STRUCTURAL BMP'S SHOWN ON THE PHASE-II PLAN WHERE COMPLETION OF GRADING AND UTILITY CONSTRUCTION IS NOT NECESSARY FOR INSTALLATION.
2) COMMENCE ROUGH GRADING ON-SITE. INSTALL STRUCTURAL AND VEGETATIVE BMP'S AS SHOWN ON THE PHASE-II PLAN AS EACH AREA IS COMPLETED. FOR LARGE FILLS AND MAJOR EARTH MOVING ACTIVITIES THAT CHANGE CONVEYANCE OF STORMWATER RUNOFF, THE INSTALLATION OF DIVERSIONS, DOWN DRAINS, AND STRUCTURES ON THE PLANS SHOULD BE CONSTRUCTED TO MAINTAIN THE PROTECTION OF SLOPES AND ROUTING OF WATER TO THE PHASE-II STRUCTURAL STORAGE LOCATIONS. THIS MAY INCLUDE PHASED INSTALLATION OF DOWN DRAINS WITH DIVERSIONS ALONG THE FACE OF LARGE FILL AREAS.
3) INSTALL PERMANENT STORMWATER MANAGEMENT AREAS AS SHOWN. WHERE PERMANENT STORMWATER MANAGEMENT AREAS HAVE WATER QUALITY COMPONENTS, INSTALL SKIMMER OR RETROFITTING DEVICES AS SHOWN ON THE PLAN AND DO NOT CONSTRUCT WATER QUALITY DEVICES UNTIL FINAL STABILIZATION HAS TAKEN PLACE. WHERE INFILTRATION IS A PART OF A STORMWATER MANAGEMENT COMPONENT, MAINTAIN THE BOTTOM OF THE INFILTRATION AREA A MINIMUM OF SIX INCHES ABOVE FINAL GRADE. TO BE EXCAVATED ONCE FINAL STABILIZATION OF THE SITE IS COMPLETE.
4) CONSTRUCT TEMPORARY AND PERMANENT DRAINAGE STRUCTURES AS NECESSARY FOR CONVEYANCE DURING GRADING ACTIVITIES. INSTALL STORM OUTLET PROTECTION CONCURRENT WITH CONSTRUCTION OF ANY DRAINAGE OUTFALL.
5) AS FINAL GRADE OF SLOPES ARE ACHIEVED, TRACK OR BENCH AS SHOWN ON THE PLANS. INSTALL SLOPE STABILIZATION REQUIRED IN THE PLANS CONCURRENT WITH THE ESTABLISHMENT OF FINAL GRADE OF SLOPES AND CONVEYANCE CHANNELS.
6) INSTALL INLET SEDIMENT TRAPS CONCURRENT WITH THE CONSTRUCTION OF STORM DRAIN STRUCTURES. PROTECT INLETS WHERE EXCAVATION HAS NOT BEEN BACKFILLED AND INLET PROTECTION ESTABLISHED BY DIVERTING TO COMPLETED INLET SEDIMENT TRAPS.
7) SPREAD FERTILIZER AND GRASS SEED/SODDING ALONG WITH RECOMMENDED MULCHING (IF SEEDING) AS SOON AS FINAL GRADE IS ACHIEVED IN ACCORDANCE WITH THE PHASE-III PLAN SHEETS AND ANY APPLICABLE LANDSCAPE PLAN.
8) COMMENCE FINAL GRADING OF ALL ROADS, PARKING LOTS, AND BUILDING PADS.
9) EXCAVATE AND BACKFILL UTILITY CONSTRUCTION IN SECTIONS TO MINIMIZE OPEN EXCAVATION. WHERE UTILITIES ARE AT FINAL GRADE, PLACE PERMANENT SEEDING IN ACCORDANCE WITH PHASE-III PLANS.

PHASE-III - FINAL CONSTRUCTION, LANDSCAPING, AND PERMANENT STABILIZATION

- 1) AS SOON AS CONCRETE BUILDING PADS ARE POURED, ALL AREAS AROUND THE PADS AND STREET/PARKING AREAS ARE TO BE TEMPORARILY VEGETATED.
2) CONSTRUCT BUILDING PAD AND FOUNDATIONS.
3) CONSTRUCT ALL LEVEL SPREADERS AND MAINTAIN STORM OUTLET PROTECTION AT PIPE OUTLETS AS SHOWN ON THE PLANS.
4) PLACE GRADED AGGREGATE BASE FOR ROADS AND DRIVES. MODIFY ALL CURB INLET SEDIMENT TRAPS AS NEEDED, BOTH FOR DIVERSION OF WATER INTO THE RAISED THROATS AND FOR THE INLET. (Sd2-P MAY BE INSTALLED ON THE GUTTER IN MOST CASES).
5) INSTALL CURBING AND SIDEWALKS DURING THIS PHASE. CURBING MAY ACT AS A RUNOFF DIVERSION. THE CONTRACTOR MUST MAINTAIN CONVEYANCE AS SHOWN IN THE PLANS, WHICH MAY REQUIRE CONSTRUCTING A SEGMENT OF CURB AT A LATER DATE TO MAINTAIN PROPER CONVEYANCE OF STORMWATER.
6) AFTER A CURING TIME OF NO LESS THAN SEVEN DAYS, BACKFILL CURBS AND SMOOTH SHOULDER GRADES. PLACE FINAL LANDSCAPING/STABILIZATION ON SHOULDERS AS SOON AS SEASON AND CONSTRUCTION ACTIVITY ALLOWS. IF FINAL STABILIZATION WILL NOT BE IMMEDIATE, PLACE TEMPORARY SEEDING OR MULCH ON THE SHOULDERS.
7) PAVE ALL STREETS AND PARKING AREAS. SEDIMENT INLET TRAP PROTECTION MAY REQUIRE MODIFICATION TO MATCH PHASE-III PLAN.
8) ALL SEDIMENT PONDS AND PERIMETER SILT FENCE IS TO BE MAINTAINED FOR THE DURATION OF BUILDING AND SITE CONSTRUCTION. AT COMPLETION OF BUILDING/SITE INFRASTRUCTURE CONSTRUCTION, ALL AREAS ARE TO BE PERMANENTLY VEGETATED.
9) UPON FINAL STABILIZATION TO STORMWATER MANAGEMENT AREAS, INSTALLATION OF WATER QUALITY AND/OR INFILTRATION MEASURES SHALL BE COMPLETED IMMEDIATELY UPON COMPLETION. AS-BUILT SURVEYS OF THESE SHOULD BE COMPLETED AND PROVIDED TO THE ENGINEER FOR REVIEW. NOTE THAT IMPROPERLY CONSTRUCTED STORMWATER MANAGEMENT AREAS MAY RESULT IN ADDITIONAL LAND DISTURBANCE. CORRECTIVE ACTION, IF REQUIRED, SHOULD BE TAKEN BEFORE A NOTICE OF TERMINATION IS FILED.
10) UPON FINAL STABILIZATION OF 100% OF THE CONTRIBUTING ON-SITE DRAINAGE AREAS, REMOVE THE RESPECTIVE TEMPORARY STRUCTURAL BMP'S USE PERMANENT VEGETATIVE BMP'S AND LANDSCAPING SHOWN ON THE PHASE-III AND LANDSCAPE PLAN TO STABILIZE DISTURBED AREAS FROM STRUCTURAL BMP'S AS THEY ARE REMOVED.

NOTICE OF TERMINATION (NOT)

- 1) THE PRIMARY PERMITTEE IS TO SUBMIT A NOTICE OF TERMINATION ONCE THE FOUR FOLLOWING CRITERIA ARE MET:
A) THE ENTIRE STANDALONE DEVELOPMENT HAS UNDERGONE FINAL STABILIZATION;
B) ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY THAT ARE AUTHORIZED BY THE NPDES PERMIT HAVE CEASED; AND
C) THE SITE IS IN COMPLIANCE WITH THIS PERMIT AND ALL TEMPORARY BMP'S HAVE BEEN REMOVED.
2) IF THE PRIMARY PERMITTEE HAS ELECTED TO SUBMIT NOIS FOR SEPARATE PHASES OF THE STANDALONE DEVELOPMENT, THE PHASE OR PHASES OF THE STANDALONE DEVELOPMENT ON THE NOT MUST CORRESPOND TO THE PHASE OR PHASES IN THE NOI.

GEORGIA UNIFORM CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL PRACTICES

Table with columns: CODE, PRACTICE, DETAIL, SYMBOL, DESCRIPTION. Includes practices like Check Dam, Channel Stabilization, Construction Exit, Stream Diversion Channel, Filter Ring, Gabions, Grade Stabilization Structure, Level Spreader, Rock Filter Dam, Retaining Wall, Retrofitting, Sediment Barrier, etc.

Table with columns: CODE, PRACTICE, DETAIL, SYMBOL, DESCRIPTION. Includes practices like Inlet Sediment Trap, Temporary Sediment Basin, Temporary Sediment Trap, Floating Surface Skimmer, Seep Berm, Temporary Stream Crossing, Storm Drain Outlet Protection, Surface Roughening, Turbidity Curtain, etc.

Table with columns: CODE, PRACTICE, DETAIL, SYMBOL, DESCRIPTION. Includes practices like Buffer Zone, Coastal Dune Stabilization, Disturbed Area Stabilization, Dust Control on Disturbed Areas, Flocculants and Coagulants, Stream Bank Stabilization, Slope Stabilization, etc.

GASWCC CHECKLIST

Table with columns: SHEET, Y/N, NO., CHECKLIST DESCRIPTION. Lists various checklist items related to erosion and sediment control, such as 'The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1st of the year in which the land-disturbing activity was permitted.'

SOIL TYPE: FANNIN FINE SANDY LOAM, 10 TO 25 PERCENT SLOPE; HAYESVILLE SANDY LOAM, 10 TO 25 PERCENT SLOPES.

LEGEND table with columns: CODE, PRACTICE, DETAIL, SYMBOL, DESCRIPTION. Lists symbols for Basin Delineation, Limits of Disturbance, and Soil Delineation.

SEE SHEET SERIES C-4 FOR EROSION AND SEDIMENTATION CONTROL PLANS

DESIGNING ARCHITECT

WAKEFIELD BEASLEY & ASSOCIATES

A NELSON Company

ARCHITECT OF RECORD

NELSON

Nelco Architecture, Inc. a licensed affiliate of Nelson Worldwide, LLC.

FORESITE group



DAWSON COUNTY SENIOR CENTER AND PAVILION 201 RECREATION RD DAWSONVILLE, GA 30534

COPYRIGHT AND REPRODUCTION NOTICE

© 2018 Wakefield Beasley & Associates Architects, Inc. These drawings are protected by the copyright laws of the United States. These drawings or any part thereof may not be used for any purpose or reproduced in any form or by any means without the written consent of WBA.

Print Record

2019-01-14 SCHEMATIC DESIGN PACKAGE 2019-02-04 BID PACKAGE 2019-03-08 GRANT REVIEW DOCUMENTS

Revisions

Table with columns: No., Date, Description. For recording revisions to the drawing.

RELEASED FOR CONSTRUCTION

DATE PROJECT NUMBER

EROSION, SEDIMENTATION, & POLLUTION CONTROL NOTES

SHEET NUMBER

C-4.2



Know what's Below. Call before you dig.

FILENAME: F:\121 029 Dawson Senior Center - Dawson County, GA\DWG\C4-ESPC Cover & Notes.dwg

FILENAME: F:\121\029\ Dawson Senior Center - Dawson County, GA\DWG\C-4.8 ESPC Details.dwg
 SHEET NAME: EROSION, SEDIMENTATION, & POLLUTION CONTROL DETAILS - COUNTY SENIOR CENTER EXPANSION
 2/08/2019 4:50:41 PM
 PROJECT NUMBER: C-4.8 PROJECT NAME: DAWSON COUNTY SENIOR CENTER EXPANSION

Ds1 MULCHING FOR TEMPORARY STABILIZATION WITHOUT VEGETATION

WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA.

- SITE PREPARATION**
- GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
 - INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES AND SEDIMENT BARRIERS.
 - LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.

MULCH MATERIALS AND APPLICATION RATES		
MATERIAL	RATE	
STRAW OR HAY	2-4" DEEP	
WOOD WASTE, CHIPS, SAW DUST, OR BARK	2-3" DEEP (ABOUT 6-9 TONS/ACRE)	
MATTING OR NETTING	ACCORDING TO MANUFACTURER RECOMMENDATIONS	
POLYETHYLENE FILM	CAN BE LAID OVER SENSITIVE AREAS AND STOCKPILES. MUST BE SECURED.	

APPLICATION

- DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT.
- IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, ADD 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT.

ANCHORING MULCH

- STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARBORING WITH A DISK SET STRAIGHT OR SERRATED. SPECIAL "PACKER DISK" DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN UPRIGHT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION.
- STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1). THE ASPHALT EMULSION SHALL BE SPRAYED ONTO THE MULCH AS IT IS EJECTED FROM THE MACHINE. USE 100 GALLONS OF EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH. TACKIFIERS AND BINDERS CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. PLEASE REFER TO SPECIFICATION TB - TACKIFIERS AND BINDERS. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENINGS OF THE NETTING SHOULD NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS.
- POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

INCORPORATED WITH A DISK, RIPPER, OR CHISEL ON SLOPES TOO STEEP FOR, OR INACCESSIBLE TO EQUIPMENT, FERTILIZER SHALL BE HYDRAULICALLY APPLIED. PREFERABLY IN THE FIRST PASS WITH SEED AND SOME HYDRAULIC MULCH. WHEN TOPPED WITH THE REMAINING REQUIRED APPLICATION RATE.

FOR LOW FERTILITY SOILS, AGRICULTURAL LIME & FERTILIZER REQUIRED UNLESS SOIL TESTS SHOW IT IS NOT REQUIRED AND THAT SOILS ARE REASONABLY FERTILE. FOR LOW FERTILITY SOILS, APPLY 10-10-10 FERTILIZER AT 500-700 LB/ACRE. APPLY AGRICULTURAL LIME AT 1 TON PER ACRE.

SEEDING

SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER-SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER), DRILL OR CULTIPACKER-SEEDERS SHOULD NORMALLY PLACE SEED ONE-QUARTER TO ONE-HALF INCH DEEP. APPROPRIATE DEPTH OF PLANTING IS TEN TIMES THE SEED DIAMETER. SOIL SHOULD BE "RAKED" LIGHTLY TO COVER SEED WITH SOIL IF SEEDING BY HAND.

MULCHING

TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH. PROVIDED THERE IS LITTLE TO NO EROSION POTENTIAL. HOWEVER, THE USE OF MULCH CAN OFFEN ACCELERATE AND ENHANCE GERMINATION AND VEGETATION ESTABLISHMENT. MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION. REFER TO DS1 - DISTURBED AREA STABILIZATION (DS1).

IRRIGATION

DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION. THE SOIL SHALL BE THOROUGHLY WETTED TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

NOTE THAT IN THE CASE OF DISCREPANCIES BETWEEN ANY OF THE INFORMATION BELOW AND THE INFORMATION CONTAINED IN TREE REPLACEMENT AND LANDSCAPE PLANS & DETAILS, THE LATTER SHALL BE USED.

GRADING AND SHAPING

- GRADING AND SHAPING MAY NOT BE WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. VERTICAL BANKS SHALL BE SLOPED TO ENABLE PLANT ESTABLISHMENT.
- WHEN CONVENTIONAL SEEDING AND FERTILIZING ARE TO BE DONE, GRADE AND SHAPE WHERE SO THAT EQUIPMENT CAN BE USED SAFELY AND EFFICIENTLY DURING SEEDBED PREPARATION, SEEDING, MULCHING AND MAINTENANCE OF THE VEGETATION.
- CONCENTRATIONS OF WATER THAT WILL CAUSE EXCESSIVE SOIL EROSION SHALL BE DIVERTED TO A SAFE OUTLET. DIVERSIONS AND OTHER TREATMENT PRACTICES SHALL CONFORM WITH THE APPROPRIATE STANDARDS AND SPECIFICATIONS.

LIME AND FERTILIZER RATES

- AGRICULTURAL LIME IS REQUIRED AT THE RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE. ALL GRADED AREAS REQUIRE LIME APPLICATION UNLESS SOIL TEST INDICATE OTHERWISE. IF LIME IS APPLIED WITHIN SIX MONTHS OF PLANTING PERMANENT PERENNIAL VEGETATION, ADDITIONAL LIME IS NOT REQUIRED. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE.
- AGRICULTURAL LIME IS GENERALLY NOT REQUIRED WHERE ONLY TREES AND SOME LANDSCAPING IS PLANTED. REFER TO TREE PROTECTION AND LANDSCAPE PLANS FOR LIME REQUIREMENTS IN AREAS OF TREES AND SHRUBS.
- REFER TO THE TABLE ON THIS SHEET OR TABLE 6-5.1 OF THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GA, SIXTH EDITION, FOR FERTILIZER REQUIREMENTS BY PLANTING SPECIES.

LIME AND FERTILIZER APPLICATION

- WHEN HYDRAULIC SEEDING EQUIPMENT IS USED, THE INITIAL FERTILIZER SHALL BE MIXED WITH SEED, INOCULANT (IF NEEDED), AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH AND APPLIED IN A SLURRY. THE INOCULANT, IF NEEDED, SHALL BE MIXED WITH THE SEED PRIOR TO BEING PLACED INTO THE HYDRAULIC SEEDER. THE SLURRY MIXTURE WILL BE AGITATED DURING APPLICATION TO KEEP THE INGREDIENTS THOROUGHLY MIXED. THE MIXTURE WILL BE SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER BEING PLACED IN THE HYDROSEEDER.
- FINELY GROUND LIMESTONE CAN BE APPLIED IN THE MULCH SLURRY OR IN COMBINATION WITH THE TOP DRESSING.
- WHEN CONVENTIONAL PLANTING IS TO BE DONE, LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY IN ONE OF THE FOLLOWING WAYS:
 - APPLY BEFORE LAND PREPARATION SO THAT IT WILL BE MIXED WITH THE SOIL DURING SEEDBED PREPARATION.
 - MIX WITH THE SOIL USED TO FILL THE HOLES, DISTRIBUTE IN FURROWS.
 - BROADCAST AFTER STEEP SURFACES ARE SCARIFIED, PITTED OR TRENCHED.
 - A FERTILIZER PELLET SHALL BE PLACED AT ROOT DEPTH IN THE CLOSING HOLE BESIDE EACH PINE TREE SEEDLING.

PLANT SELECTION

- PLANT AND LANDSCAPE SPECIES TO BE AS INDICATED ON THE TREE REPLACEMENT PLAN AND LANDSCAPE PLANS. IN THE EVENT NO SUCH PLAN HAS BEEN PREPARED, AND SPECIES IS NOT CALLED OUT SPECIFICALLY ON THE PERMANENT VEGETATION PLAN, SPECIES ARE TO BE SELECTED BASED ON THE TABLES SHOWN ON THIS SHEET OR FROM TABLES 4-1, 6-2, 6-3, 6-4, OR 6-5.4 OF THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA, SIXTH EDITION, AND APPROVED IN WRITING BY THE OWNER.

RYEGRASS SHALL NOT BE USED IN ANY SEEDING MIXTURES CONTAINING PERENNIAL SPECIES DUE TO ITS ABILITY TO OUT-COMPETE DESIRED SPECIES CHOSEN FOR PERMANENT PERENNIAL COVER.

SEEDBED PREPARATION

SEEDBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED (BUT IS STRONGLY RECOMMENDED FOR ANY SEEDING PROCESS, WHEN POSSIBLE). WHEN CONVENTIONAL SEEDING IS TO BE USED, SEEDBED PREPARATION WILL BE DONE AS FOLLOWS:

BROADCAST PLANTINGS

- TILLAGE, AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 6 INCHES; ALLEVIATE COMPACTION; INCORPORATE LIME AND FERTILIZER, SMOOTH AND FINISH THE SOIL; ALLOW FOR THE PROPER PLACEMENT OF SEED, SPRIGS, OR PLANTS, AND ALLOW FOR THE ANCHORING OF STRAW OR HAY MULCH IF A DISK IS TO BE USED.
- TILLAGE MAY BE DONE WITH ANY SUITABLE EQUIPMENT.
- TILLAGE SHOULD BE DONE ON THE CONTOUR WHERE FEASIBLE.
- ON SLOPES TOO STEEP FOR THE SAFE OPERATION OF TILLAGE EQUIPMENT, THE SOIL SURFACE SHALL BE PITTED OR TRENCHED ACROSS THE SLOPE WITH APPROPRIATE HAND TOOLS TO PROVIDE TWO PLACES 6 TO 8 INCHES APART IN WHICH SEED MAY LODGE AND GERMINATE. HYDRAULIC SEEDING MAY ALSO BE USED.

INDIVIDUAL PLANTS

- ALL INDIVIDUAL PLANTINGS SHOULD BE PERFORMED IN ACCORDANCE WITH LANDSCAPE OR TREE REPLACEMENT PLANS.

INOCULANTS

- ALL LEGUME SEED SHALL BE INOCULATED WITH APPROPRIATE NITROGEN-FIXING BACTERIA. THE INOCULANT SHALL BE A PURE CULTURE PREPARED SPECIFICALLY FOR THE SEED SPECIES AND USED WITHIN THE DATES ON THE CONTAINER.
- A MIXING MEDIUM RECOMMENDED BY THE MANUFACTURER SHALL BE USED TO BOND THE INOCULANT TO THE SEED. FOR CONVENTIONAL SEEDING, USE TWICE THE AMOUNT OF INOCULANT RECOMMENDED BY THE MANUFACTURER. FOR HYDRAULIC SEEDING, FOUR TIMES THE AMOUNT OF INOCULANT RECOMMENDED BY THE MANUFACTURER SHALL BE USED.
- ALL INOCULATED SEED SHALL BE PROTECTED FROM THE SUN AND HIGH TEMPERATURES AND SHALL BE PLANTED THE SAME DAY INOCULATED. NO INOCULATED SEED SHALL REMAIN IN THE HYDROSEEDER LONGER THAN ONE HOUR.

PLANTING

HYDRAULIC SEEDING

MIX THE SEED (INOCULATED IF NEEDED), FERTILIZER, AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH WITH WATER AND APPLY IN A SLURRY UNIFORMLY OVER THE AREA TO BE TREATED. APPLY WITHIN ONE HOUR AFTER THE MIXTURE IS MADE.

CONVENTIONAL SEEDING

SEEDING WILL BE DONE ON A FRESHLY PREPARED AND FIRMED SEEDBED. FOR BROADCAST PLANTING, USE A CULTIPACKER-SEEDER, DRILL, ROTARY SEEDER, OTHER MECHANICAL SEEDER, OR HAND SEEDING TO DISTRIBUTE THE SEED UNIFORMLY OVER THE AREA TO BE TREATED. COVER THE SEED LIGHTLY WITH 1/8 TO 1/4 INCH OF SOIL FOR SMALL SEED AND 1/2 TO 1 INCH FOR LARGE SEED WHEN USING A CULTIPACKER OR OTHER SUITABLE EQUIPMENT.

NO-TILL SEEDING

NO-TILL SEEDING IS PERMISSIBLE INTO ANNUAL COVER CROPS WHEN PLANTING IS DONE FOLLOWING MATURITY OF THE COVER CROP OR IF THE TEMPORARY COVER STAND IS SPARSE ENOUGH TO ALLOW ADEQUATE GROWTH OF THE PERMANENT (PERENNIAL) SPECIES. NO-TILL SEEDING SHALL BE DONE WITH APPROPRIATE NO-TILL SEEDING EQUIPMENT. THE SEED SHALL BE UNIFORMLY DISTRIBUTED AND PLANTED AT THE PROPER DEPTH.

MULCHING

MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDBEDS SHALL ACHIEVE 75% TO 100% SOIL COVER. PERMANENT MULCH COVER SELECTION WHERE VEGETATION IS NOT APPLIED SHOULD BE PLACED AS INDICATED ON TREE REPLACEMENT AND/OR LANDSCAPING PLANS, OR AT THE DIRECTION OR APPROVAL OF THE OWNER. MULCH SELECTION FOR TEMPORARY COVER OF PERMANENT VEGETATION SHALL BE BASED ON THE SELECTION GUIDELINES IN THE "MULCH REQUIREMENTS FOR PERMANENT STABILIZATION" TABLE ON THIS SHEET.

WOOD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY SHALL BE EVENLY DISPersed WHEN AGITATED IN WATER. THE FIBERS SHALL CONTAIN A DYE TO ALLOW VISUAL METERS AND AID IN UNIFORM APPLICATION DURING SEEDING. APPLYING MULCH

APPLYING MULCH

STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE.

WOOD CELLULOSE OR WOOD PULP FIBER MULCH SHALL BE APPLIED UNIFORMLY WITH HYDRAULIC SEEDING EQUIPMENT.

ANCHORING MULCH

ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION BY ONE OF THE FOLLOWING METHODS:

- HAY AND STRAW MULCH SHALL BE PRESSED INTO THE SOIL IMMEDIATELY AFTER THE MULCH IS SPREAD. A SPECIAL "PACKER DISK" OR DISK HARBOR WITH THE DISKS SET STRAIGHT MAY BE USED. THE DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISKS SHALL BE DULL ENOUGH TO PRESS THE MULCH INTO THE GROUND WITHOUT CUTTING IT, LEAVING MUCH OF IT IN AN UPRIGHT POSITION. MULCH SHALL NOT BE FLOWED INTO THE SOIL.
- SYNTHETIC TACKIFIERS, BINDERS OR HYDRAULIC MULCH SPECIFICALLY DESIGNED TO TACK STRAW, SHALL BE APPLIED IN CONJUNCTION WITH OR IMMEDIATELY AFTER THE MULCH IS SPREAD. SYNTHETIC TACKIFIERS SHALL BE MIXED AND APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. ALL TACKIFIERS, BINDERS OR HYDRAULIC MULCH SPECIFICALLY DESIGNED TO TACK STRAW SHOULD BE VERIFIED NONTXIC THROUGH EPA 2021.0 TESTING. REFER TO TACKIFIERS-TAC.
- RYE OR WHEAT CAN BE INCLUDED WITH FALL AND WINTER PLANTINGS TO STABILIZE THE MULCH. THEY SHALL BE APPLIED AT A RATE OF ONE-QUARTER TO ONE-HALF BUSHEL PER ACRE.
- PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH MAY BE NEEDED TO ANCHOR STRAW OR HAY MULCH ON UNSTABLE SOILS AND CONCENTRATED FLOW AREAS. THESE MATERIALS SHALL BE INSTALLED AND ANCHORED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

BEDDING MATERIAL

MULCH SHALL BE APPLIED TO ORNAMENTAL BEDS, AROUND SHRUBS, AND ON BARE AREAS ON LAWNS. WHEN BEDDING MATERIALS ARE NOT SPECIFIED ON THE LANDSCAPE AND/OR TREE REPLACEMENT PLANS, THE CONTRACTOR SHALL SELECT AND SEEK PRIOR APPROVAL OF THE OWNER TO PLACE BEDDING MATERIAL SHOWN IN THE "MULCH REQUIREMENTS FOR PERMANENT STABILIZATION" TABLE ON THIS SHEET.

IRRIGATION

WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION.

TOPDRESSING

TOPDRESSING WILL BE APPLIED ON ALL TEMPORARY AND PERMANENT (PERENNIAL) SPECIES PLANTED ALONE OR IN MIXTURES WITH OTHER SPECIES. RECOMMENDED RATES OF APPLICATION ARE LISTED ON THIS SHEET AND IN TABLE 6-5.1 OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GA, SIXTH EDITION.

MULCH REQUIREMENTS FOR PERMANENT STABILIZATION

MATERIAL	RATE	WHERE TO USE	FERTILIZER ANALYSIS			FERTILIZER RATE (lb/ac)	N TOP DRESSING RATE
			N	P	K		
DRY STRAW	2 TONS/ACRE	TEMPORARY COVER IN SEEDBED AREAS					
DRY HAY	2-1/2 TONS/ACRE	TEMPORARY COVER IN SEEDBED AREAS					
WOOD CELLULOSE OR WOOD PULP FIBER MULCH	500 LB/ACRE	HYDRAULIC APPLICATIONS (REQUIRES STRAW OR HAY APPLICATION NOTED ABOVE. FOLLOWING HYDRAULIC SEEDING)					
WOOD CELLULOSE OR WOOD PULP FIBER MULCH	1,000 LB/ACRE	USE FOR HYDRAULIC SEEDING ON SLOPES 3/4:1 AND GREATER					
SERICEA LESPEDEZA HAY (CONTAINING MATURE SEED)	3 TONS/ACRE	USE ON AREAS WHERE SERICEA LESPEDEZA IS MAY BE ESTABLISHED					
GRAIN STRAW	4" TO 6"	FOR AREAS WHERE ORNAMENTALS OR GROUND COVERS ARE PLANTED AND NO LANDSCAPE/TREE REPLACEMENT PLANS HAVE BEEN PREPARED THAT SPECIFY OTHERWISE. REQUIRES ADVANCE APPROVAL OF OWNER. NOT APPROPRIATE FOR GRASS SEEDING APPLICATIONS.					
GRASS HAY	4" TO 6"	FOR AREAS WHERE ORNAMENTALS OR GROUND COVERS ARE PLANTED AND NO LANDSCAPE/TREE REPLACEMENT PLANS HAVE BEEN PREPARED THAT SPECIFY OTHERWISE. REQUIRES ADVANCE APPROVAL OF OWNER. NOT APPROPRIATE FOR GRASS SEEDING APPLICATIONS.					
PINE NEEDLES	3" TO 5"	FOR AREAS WHERE ORNAMENTALS OR GROUND COVERS ARE PLANTED AND NO LANDSCAPE/TREE REPLACEMENT PLANS HAVE BEEN PREPARED THAT SPECIFY OTHERWISE. REQUIRES ADVANCE APPROVAL OF OWNER. NOT APPROPRIATE FOR GRASS SEEDING APPLICATIONS.					
CHIPPED WOOD MULCH	4" TO 6"	FOR AREAS WHERE ORNAMENTALS OR GROUND COVERS ARE PLANTED AND NO LANDSCAPE/TREE REPLACEMENT PLANS HAVE BEEN PREPARED THAT SPECIFY OTHERWISE. REQUIRES ADVANCE APPROVAL OF OWNER. NOT APPROPRIATE FOR GRASS SEEDING APPLICATIONS.					
PINE BARK	4" TO 6"	FOR AREAS WHERE ORNAMENTALS OR GROUND COVERS ARE PLANTED AND NO LANDSCAPE/TREE REPLACEMENT PLANS HAVE BEEN PREPARED THAT SPECIFY OTHERWISE. REQUIRES ADVANCE APPROVAL OF OWNER. NOT APPROPRIATE FOR GRASS SEEDING APPLICATIONS.					

Ds4 DISTURBED AREA STABILIZATION (WITH SODDING)

SOIL PREPARATION

- BRING SOIL SURFACE TO FINAL GRADE. CLEAR SURFACE OF TRASH, WOODY DEBRIS, STONES AND CLODS LARGER THAN 1". APPLY SOD TO SOIL SURFACES ONLY AND NOT FROZEN SURFACES, OR GRAVEL TYPE SOILS.
- TOPSOIL PROPERLY APPLIED WILL HELP GUARANTEE A STRONG, DONT USE TOPSOIL RECENTLY TREATED WITH HERBICIDES OR SOIL STERILANTS.

LIME AND FERTILIZER RATES

- FERTILIZE AT RATES SHOWN IN THE "FERTILIZER RATES FOR SOD" TABLE ON THIS SHEET.
- AGRICULTURAL LIME SHOULD BE APPLIED BASED ON SOIL TESTS IF AVAILABLE OR AT A RATE OF 1 TO 2 TONS PER ACRE.

INSTALLATION

- LAY SOD WITH TIGHT JOINTS AND IN STRAIGHT LINES. DONT OVERLAP JOINTS. STAGGER JOINTS AND DO NOT STRETCH SOD.
- ON SLOPES STEEPER THAN 3:1, SOD SHOULD BE ANCHORED WITH PINS OR OTHER APPROVED METHODS. INSTALLED SOD SHOULD BE ROLLED OR TAMPED TO PROVIDE GOOD CONTACT BETWEEN SOD AND SOIL.
- SOD SHOULD NOT BE CUT OR SPREAD IN EXTREMELY WET OR DRY WEATHER. IRRIGATION SHOULD BE USED TO SUPPLEMENT RAINFALL FOR A MINIMUM OF 2-3 WEEKS.
- SOD SHOULD BE CUT AND INSTALLED WITHIN 36 HOURS OF DIGGING.
- AVOID PLANTING WHEN SUBJECT TO FROST HEAVE OR HOT WEATHER. IF IRRIGATION IS NOT AVAILABLE.
- THE SOD TYPE MUST BE BASED ON THE LANDSCAPE PLANS, OR IN THE CASE LANDSCAPE PLANS ARE NOT INCLUDED, AT THE DIRECTION OF THE OWNER.

FERTILIZER REQUIREMENTS FOR SOD					
SPECIES VARIETY	RESOURCE AREAS	MAINT. YEAR	FERTILIZER (N-P-K)	RATE (LB/AC)	NITROGEN TOP DRESSING (LB/AC)
BERMUDA GRASS COMMON	M-L, P, C	FIRST SECOND	6-12-12 6-12-12	1500 800	50-100 50-100
BAHIA GRASS PENSACOLA	P, C	FIRST SECOND	6-12-12 6-12-12	1500 800	50-100 50-100
CENTIPEDA	P, C	FIRST SECOND	6-12-12 6-12-12	1500 800	50-100 50-100
ST AUGUSTINE COMMON	P, C	FIRST SECOND	6-12-12 6-12-12	1500 800	50-100 50-100
ZOYSIA EMEGALD MYER	P, C	FIRST SECOND	6-12-12 6-12-12	1500 800	50-100 50-100
TALL FESCUE KENTUCKY	M-L, P	FIRST SECOND	6-12-12 6-12-12	1500 1000	50-100 -

M-L: MOUNTAIN-LIMESTONE, P: PIEDMONT, C: COASTAL

SEE "THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA, SIXTH EDITION FOR MAJOR LAND RESOURCE AREAS.

Ss SLOPE STABILIZATION

ALL SLOPE STABILIZATION PRODUCTS MUST HAVE A DOCUMENTED "C" FACTOR OF 0.080 PER ASTM D6459 AND BE ON THE GASWCC APPROVED PRODUCTS LIST (APL).

ROLLED EROSION CONTROL PRODUCT (RECP) CLASSIFICATIONS:

- SHORT TERM - FUNCTIONAL LONGEVITY OF 12 MONTHS
- EXTENDED TERM - FUNCTIONAL LONGEVITY OF 24 MONTHS
- LONG TERM - FUNCTIONAL LONGEVITY OF 36 MONTHS

REFER TO THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", SIXTH EDITION, FOR MORE DETAILED INFORMATION ON SPECIFIC LONGEVITY CRITERIA.

THE APPROVED PRODUCTS LIST AND TEST METHODS FOR APPROVED MATERIALS ARE AVAILABLE AT THE GEORGIA SOIL AND WATER CONSERVATION WEBSITE (HTTP://WWW.GASWCC.GEORGIA.GOV.)

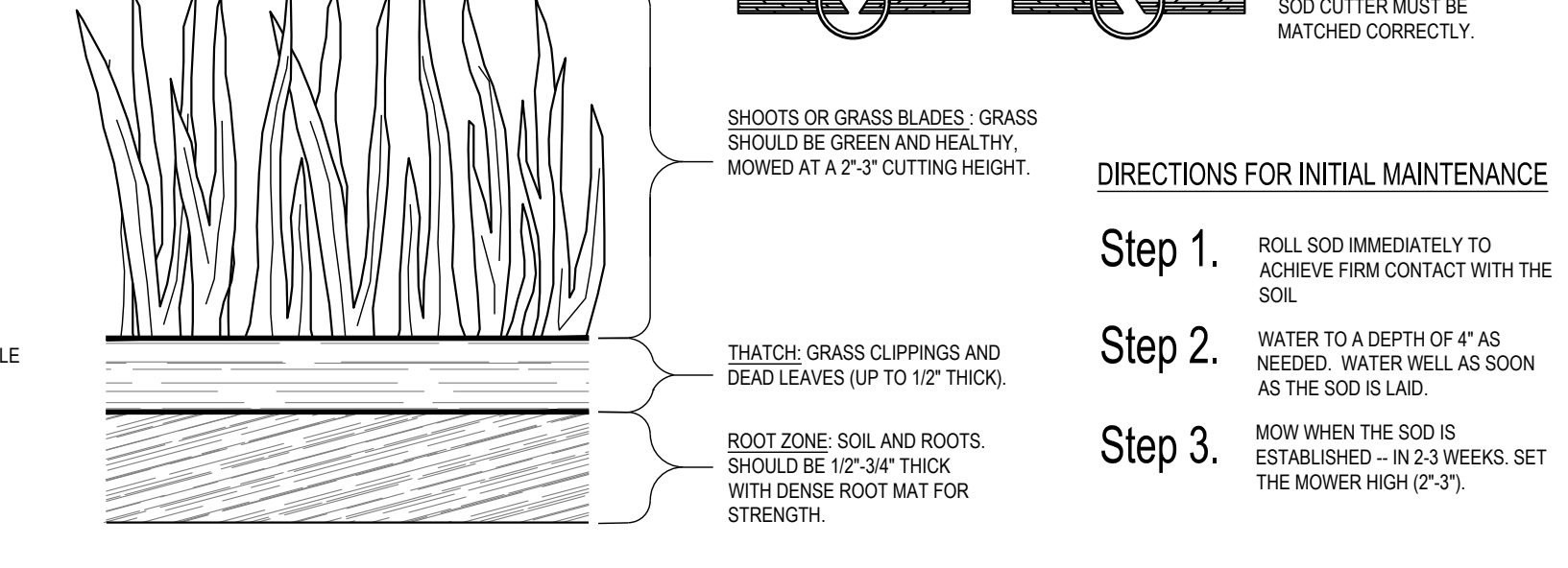
SITE PREPARATION

AFTER THE SITE HAS BEEN SHAPED AND GRADED TO DESIGN, PREPARE A FRIABLE SEEDBED RELATIVELY FREE FROM STONES AND ROCKS MORE THAN ONE INCH IN DIAMETER, AND ANY FOREIGN MATERIAL THAT WILL PREVENT CONTACT OF THE SOIL STABILIZATION MAT WITH THE SOIL SURFACE. SURFACE MUST BE SMOOTH TO ENSURE PROPER CONTACT OF BLANKETS OR MATTING TO THE SOIL SURFACE. IF NECESSARY, REDIRECT ANY RUNOFF FROM THE DITCH OR SLOPE DURING INSTALLATION.

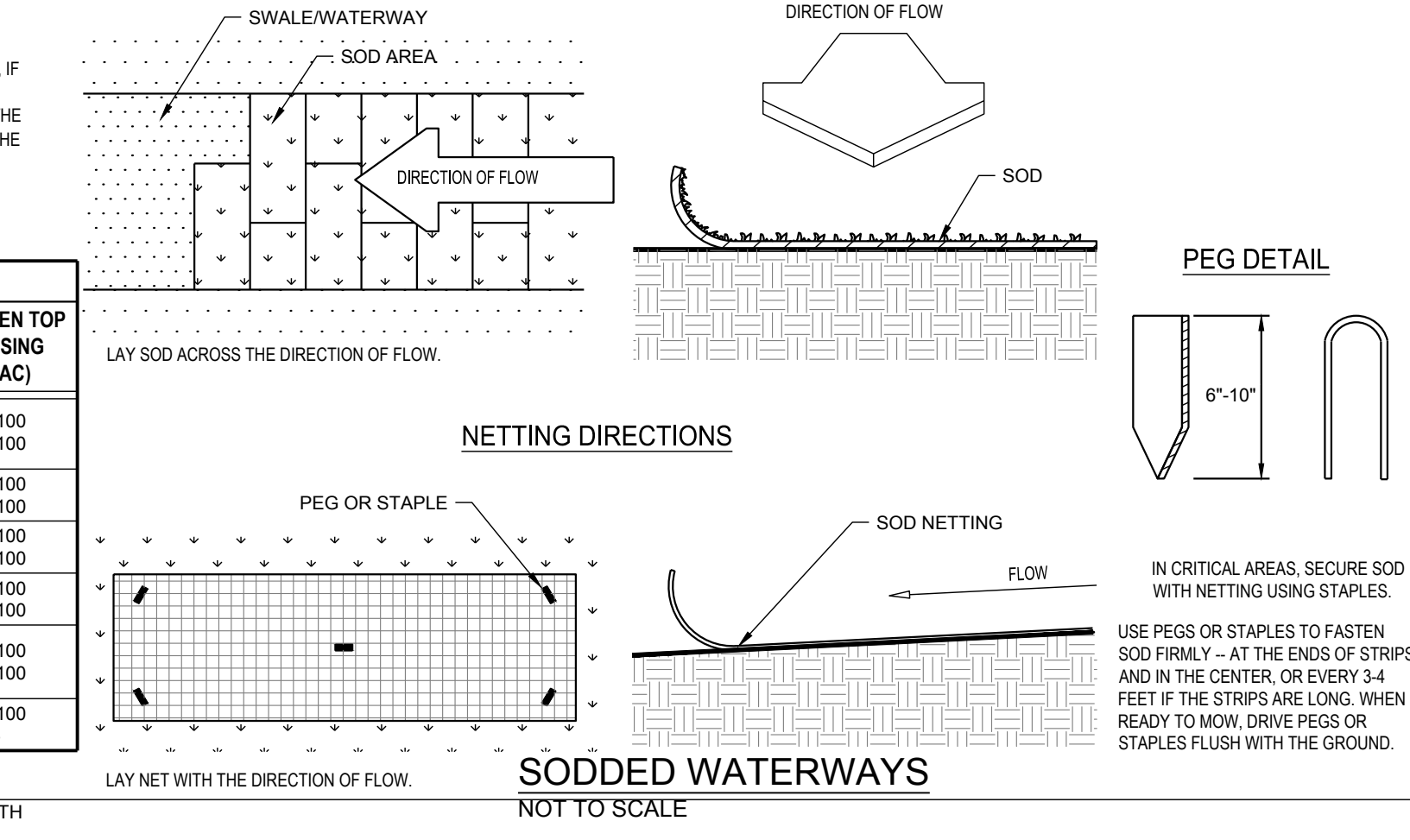
MAINTENANCE

ALL EROSION CONTROL BLANKETS AND MATTING SHOULD BE INSPECTED PERIODICALLY FOLLOWING INSTALLATION, PARTICULARLY AFTER RAINSTORMS TO CHECK FOR EROSION AND UNDERMINING. ANY DISLOCATION OR FAILURE SHOULD BE REPAIRED IMMEDIATELY. IF WASHOUTS OR BREAKAGE OCCURS, REINSTALL THE MATERIAL AFTER REPAIRING DAMAGE TO THE SLOPE OR DITCH. CONTINUE TO MONITOR THESE AREAS UNTIL THEY BECOME PERMANENTLY STABILIZED.

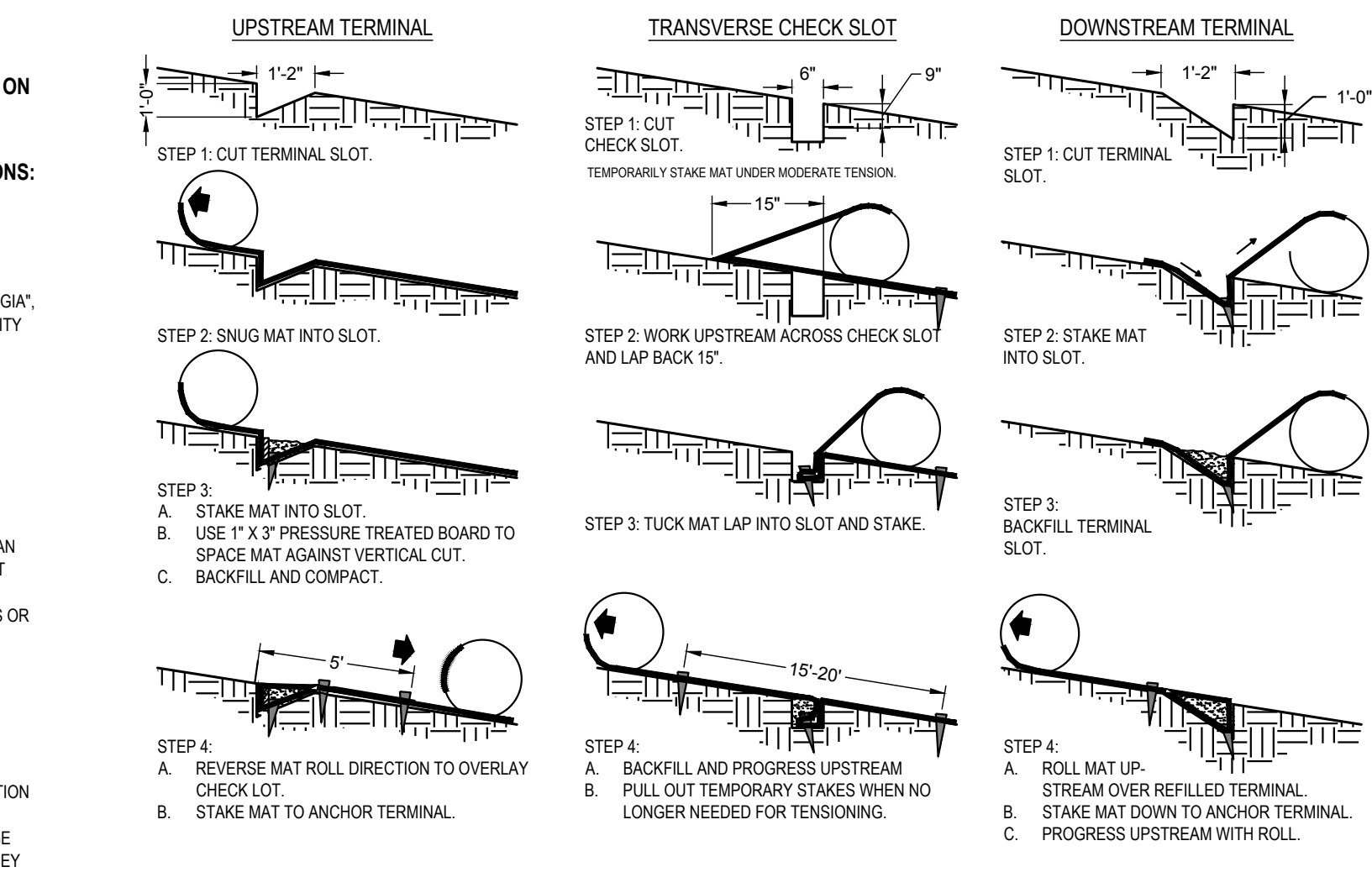
APPEARANCE OF GOOD SOD



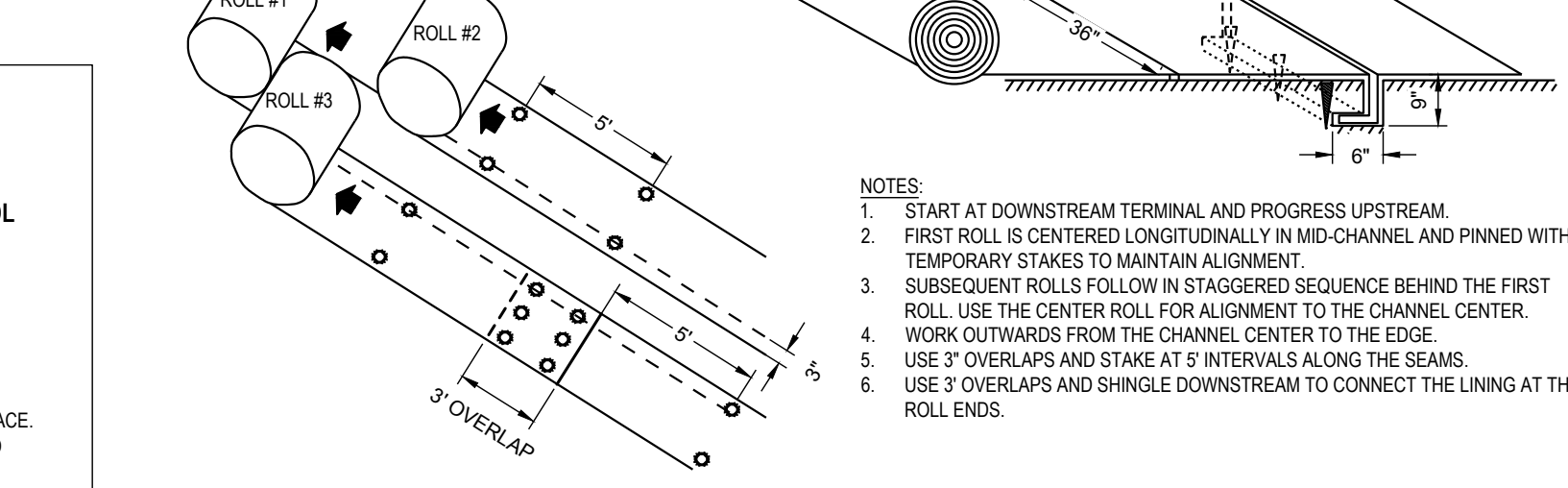
SOD MAINTENANCE AND INSTALLATION



BLANKET AND MATTING CROSS-SECTIONS



SEQUENTIAL ROLL RUN OUT IN CHANNELS



Ss TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)

NOT TO SCALE

Du DUST CONTROL ON DISTURBED AREAS

REFER TO THE POLLUTION CONTROL NOTES FOR RECOMMENDED SEQUENCE AND PRACTICE OF DUST CONTROL MEASURES.

TEMPORARY METHODS

- APPLICATION OF MULCH (SEE DS1)
- TEMPORARY VEGETATIVE COVER (SEE DS2)
- SPRAY ON ADHESIVES (SEE TB2)
- TILLAGE - THE ROUGHENING OF SOIL AND BRING CLODS TO THE SURFACE. IT SHOULD BE USED AS AN EMERGENCY MEASURE BEFORE HIGH WIND EROSION POTENTIAL.
- IRRIGATION - SPRINKLE WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.
- BARRIERS - SOLID BOARD FENCES, SNOW FENCES, BURIAL FENCES, BALES OF HAY, AND SIMILAR MATERIALS TO BE PLACED TO RIGHT ANGLES OF PREVAILING CURRENTS. TO BE EFFECTIVE, BARRIERS MUST BE AT INTERVALS OF APPROX. 15 TIMES THEIR HEIGHT.
- CALCIUM CHLORIDE APPLICATION - APPLY AS NEEDED TO KEEP SURFACE MOIST.

PERMANENT METHODS

- PERMANENT VEGETATION - (SEE DS3)
- TOPSOILING - COVER WITH LESS EROSION TOPSOIL
-



Plan View
Scale = 1" = 30'

Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Number Lamps	Filename	Lumens per Lamp	LLF	Wattage
	B	3	EATON - STREETWORKS (FORMER COOPER LIGHTING)	NVN-AF-06-LED-U-5WQ	NAVION ROADWAY AND AREA LUMINAIRE (6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS	96	NVN-AF-06-LED-U-5WQ.IES	390	0.912	333
	D	1	EATON - STREETWORKS (FORMER COOPER LIGHTING)	NVN-AF-06-LED-U-T4W	NAVION ROADWAY AND AREA LUMINAIRE (6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS	96	NVN-AF-06-LED-U-T4W.IES	370	0.912	333

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	2.3 fc	5.1 fc	0.8 fc	6.4:1	2.9:1

- Notes**
- Readings are shown in units of maintained footcandles.
 - Total Light Loss Factor (LLF) = .912 LLF for LED
 - Test Plane = 0' Above grade
 - Fixture Mounting Height = 30' Above grade
 - Fixture Spacing = See Plan view.
 - This photometric layout was calculated using specific criteria. Any deviation from stated parameters will affect actual performance.
 - These lighting calculations are not a substitute for independent engineering analysis of lighting system suitability and safety.

Disclaimer
This lighting design is not a professional engineering drawing and is provided for informational purposes only, without warranty as to accuracy, completeness, reliability or otherwise. Frazier Photometrics is not responsible for specifying the lighting or illumination requirements for any specific project. It is the obligation of the end-user to consult with a professional engineering advisor to determine whether this lighting design meets the applicable project requirements for lighting system performance, safety, suitability and effectiveness for use in a particular application. End-user environment and application (including, but not limited to, voltage variation and dirt accumulation) can cause actual field performance to differ from the calculated photometric performance represented in this lighting design. In no event will Frazier Photometrics be held responsible for any loss resulting from any use of this lighting design.