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State Map
Not To Scale

PARKING LOT C EXPANSION

FLORENCE, ALABAMA

CONSTRUCTION DOCUMENTS

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ISSUE DATE
CONSTRUCTION DOCUMENTS 10/10/2022

DRAWN BY:
CHECKED BY:

UNA PARKING LOT C EXPANSION
Fflorence, AL

GMC Project # ABHM220004

ALABAMA LICENSED ARCHITECT No. 26073 PROFESSIONAL COREY ANDREW SHOOP
10-10-2022

TITLE SHEET

C0.0
sheet 1 of 11

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PLOTTED: Oct 10, 2022 - 4:29pm

Best Management Practices Notes

1. ALL BEST MANAGEMENT PRACTICES SHALL BE DEVELOPED AND MAINTAINED BY THE CONTRACTOR ACCORDING TO THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, (MARCH 2009 ed. OR MOST CURRENT) BY THE ALABAMA SOIL AND WATER CONSERVATION COMMITTEE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND FAMILIARIZING HIMSELF WITH THE HANDBOOK AND THE STANDARDS AND MATERIALS CONTAINED THEREIN. THE HANDBOOK MAY BE PURCHASED FROM THE ALABAMA CHAPTER OF THE SOIL AND WATER CONSERVATION SOCIETY THROUGH THE COUNTY SOIL AND WATER CONSERVATION FOUNDATION. ORDER FORMS ARE AVAILABLE ON THE HOME PAGES OF THE ALABAMA CHAPTER OF THE SOIL AND WATER CONSERVATION SOCIETY (http:\www.alchapterswcs.aces.edu) AND THE ALABAMA SOIL AND WATER CONSERVATION COMMITTEE (https://alconservationdistricts.gov/) AND AT LOCAL SOIL AND WATER CONSERVATION DISTRICT OFFICES IN EACH COUNTY.

2. THE MAINTENANCE OF ALL BEST MANAGEMENT PRACTICES, SO AS TO BE AN EFFECTIVE BARRIER TO EROSION AND SEDIMENTATION, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THROUGHOUT THE DURATION OF THE CONSTRUCTION PERIOD. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN COMPLIANCE WITH ALL ADEM AND EPA BEST MANAGEMENT PRACTICES AND THE NPDES PERMIT ASSOCIATED WITH THIS SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR, REPLACEMENT, AND/OR SUPPLEMENTATION OF ANY CONTROL MEASURES THAT ARE NOT FUNCTIONING PROPERLY. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHOWN ON THE PLANS SHALL BE CONSIDERED A MINIMUM.

3. OTHER THAN LAND-CLEARING ACTIVITIES REQUIRED TO INSTALL THE APPROPRIATE BMP IN ACCORDANCE WITH THE BMP PLANS, ANY DOWN SLOPE EROSION AND SEDIMENT CONTROL MEASURES, ON-SITE STREAM CHANNEL PROTECTION AND UPSLOPE DIVERSION OF DRAINAGE REQUIRED BY THE BMP PLAN SHALL BE IN PLACE AND FUNCTIONAL BEFORE ANY CLEARING OR EARTH MOVING OPERATIONS BEGIN AND SHALL BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT SHALL BE REPLACED AT THE END OF THE WORKDAY.

4. THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE WHICH CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES. ANY SLOPE OR FILL WHICH HAS BEEN GRADED SHALL WITHIN THIRTEEN (13) DAYS OF THE COMPLETION OF SUCH GRADING OR THE COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE BE PROVIDED WITH GROUND COVER, MATERIALS, DEVICES, OR STRUCTURES SUFFICIENT TO RETAIN EROSION. THE BMPs SHALL REMAIN IN PLACE IN ACCORDANCE WITH THE BMP PLAN UNTIL THE GRADED SLOPE OR FILL IS STABILIZED.

5. ALL HAZARDOUS SUBSTANCES USED FOR THIS PROJECT (PAINT, OIL, GREASE, AND OTHER PETROLEUM PRODUCTS) SHALL BE STORED IN ACCORDANCE WITH SPCC REGULATIONS. THESE SUBSTANCES SHALL BE STORED AWAY FROM STORM DRAINS, DITCHES, AND GUTTERS IN WATERTIGHT CONTAINERS. DISPOSAL OF THESE SUBSTANCES SHALL BE IN ACCORDANCE WITH ADEM REGULATIONS. THE CONTRACTOR SHALL PROVIDE ADEQUATE TRASH CONTAINERS ONSITE FOR THE DISPOSAL OF CONSTRUCTION MATERIALS WASTE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING TRASH FROM ENTERING THE STORM DRAINAGE SYSTEM.

6. ALL CONTROL MEASURES SHALL BE CHECKED, AND REPAIRED AS NECESSARY, MONTHLY IN DRY PERIODS, AND WITHIN 24 HOURS AFTER ANY RAINFALL AT THE SITE OF 0.75 INCH WITHIN A 24 HOUR PERIOD. DURING PROLONGED RAINFALLS, DAILY CHECKING AND, IF NECESSARY, REPAIRING SHALL BE DONE. THE PERMITTEE SHALL MAINTAIN WRITTEN RECORDS OF SUCH CHECKS AND REPAIRS, WHICH SHALL BE SUBJECT TO THE INSPECTION OF THE OFFICIAL AT ANY REASONABLE TIME.

7. DISTURBED AREA = 1.11+/- Acres

8. APPROXIMATE START DATE: DECEMBER 2022. APPROXIMATE END DATE: JANUARY 2023.

9. EXISTING SITE CONDITIONS: EXISTING ASPHALT PARKING LOT, WITH ASSOCIATED UTILITIES CURBS AND SIDEWALKS.

10. ALL MATERIALS SHALL BE PROPERLY STORED, NOT EXPOSED TO RAIN, AND STOCKPILED. ALL CONTAINERS SHALL BE STORED CLOSED OR IN COVER. ALL EXCESS OR WASTE MATERIAL SHALL BE DISPOSED OF PROPERLY. THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION WASTE DUMPSTER OR TRAILER ON SITE FOR CONSTRUCTION WASTE. THE CONTRACTOR SHALL DISPOSE OF TRASH AND WASTE TO AN ACCEPTABLE OFFSITE FACILITY EVERY 10 DAYS MINIMUM.

11. THERE SHALL BE NO DISTINCTLY VISIBLE FLOATING SCUM, OIL, OR OTHER MATTER CONTAINED IN THE STORM WATER DISCHARGE TO A RECEIVING WATER, MUST NOT CAUSE AN UNNATURAL COLOR (EXCEPT DYES OR OTHER SUBSTANCES DISCHARGED FOR THE PURPOSE OF ENVIRONMENTAL STUDIES AND WHICH DO NOT HAVE A HARMFUL EFFECT ON THE RECEIVING WATER), OR ODOR IN THE RECEIVING WATERS. THE STORM WATER DISCHARGE TO RECEIVING WATER MUST RESULT IN NO MATERIAL IN CONCENTRATION SUFFICIENT TO BE HAZARDOUS OR OTHERWISE DETRIMENTAL TO HUMANS, LIVESTOCK, WILDLIFE, PLANT LIFE OR FISH AND AQUATIC LIFE IN THE RECEIVING WATER.

12. WHEN THE LAND-DISTURBING ACTIVITY IS FINISHED AND STABLE VEGETATION OR OTHER PERMANENT CONTROLS HAVE BEEN ESTABLISHED ON ALL REMAINING EXPOSED SOIL, THE OWNER OF THE LAND WHERE THE LAND-DISTURBING ACTIVITY WAS CONDUCTED, OR HIS AUTHORIZED AGENT, SHALL NOTIFY THE OFFICIAL OF THESE FACTS AND REQUEST A FINAL INSPECTION. THE OFFICIAL SHALL THEN INSPECT THE SITE WITHIN 5 WORKING DAYS AFTER RECEIPT OF NOTICE, AND MAY REQUIRE ADDITIONAL MEASURES TO STABILIZE THE SOIL AND CONTROL EROSION AND SEDIMENTATION AS REQUIRED.

13. THE CONTRACTOR SHALL MINIMIZE THE TRACKING OF MUD AND DEBRIS ONTO PAVED ROADWAYS FROM CONSTRUCTION AREAS. THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION EXIT PAD AS NOTED ON THE PLANS AND MAINTAIN IT ON A REGULAR BASIS AS AN EFFECTIVE MEASURE FOR REMOVING MUD AND DEBRIS FROM EQUIPMENT TIRES FROM BEING TRACKED FROM THE SITE ONTO ADJACENT ROADWAYS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SPRAY HOSE FOR WASHING OF TIRES AND EQUIPMENT, THE PERIODIC REWORKING OF THE CONSTRUCTION EXIT PAD STONE, OR SUPPLEMENTING THE EXIT PAD WITH ADDITIONAL STONE AS REQUIRED TO ENSURE ITS CONTINUED EFFECTIVENESS THROUGHOUT THE DURATION OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AT HIS EXPENSE ANY MUD AND DEBRIS TRACKED OFFSITE AND ONTO ADJACENT ROADWAYS AS REQUIRED.

14. ALL EXISTING AND NEW STORM DRAINAGE INLETS, STRUCTURES, AND PIPES SHALL BE CLEANED OF TRASH AND SEDIMENTS ON A REGULAR BASIS, WEEKLY AT A MINIMUM, SO AS NOT TO ALLOW DOWNSTREAM POLLUTION OF RECEIVING WATERS OR THE ESCAPING OF SEDIMENTS OFF SITE.

15. TEMPORARY DIVERSION BERMS AND/OR DITCHES SHALL BE PROVIDED AS REQUIRED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING DUST TO A MINIMUM THROUGH THE USE OF WATER TRUCKS OR OTHER DUST CONTROLLING METHODS THROUGHOUT THE CONSTRUCTION PERIOD.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING EROSION AND SILTATION OFF OF ADJACENT AND DOWNSTREAM PROPERTIES AND/OR ADJOINING SITES. AT HIS EXPENSE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SEDIMENTS AND DEBRIS ESCAPING THIS PROJECT SITE, THE REMEDIATION AND/OR REPAIR OF ANY DAMAGE THAT MAY OCCUR AS A RESULT TO ADJOINING AND/OR DOWNSTREAM AFFECTED PROPERTIES OR OFFSITE STRUCTURES, AND ANY FINES OR PENALATIES LEVIED AGAINST THE PROJECT BY REGULATORY AGENCIES DUE TO DEFICIENCIES OF CONTROL MEASURES.

18. ALL DISTURBED AND REGRADED AREAS NOT TO BE PAVED SHALL RECEIVE TOPSOIL AND BE SEEDED AND MULCHED ACCORDING TO A.L.D.O.T. PERMANENT SEEDING SCHEDULES, COVERED WITH SOLID SOD, OR AS SHOWN ON THE LANDSCAPE PLAN (IF ANY). LOCALIZED EROSION AND RILLS SHALL BE REPAIRED AS NECESSARY AT THE CONTRACTORS EXPENSE. AREAS TO BE SEEDED SHALL RECEIVE 4" OF TOPSOIL AND AREAS TO BE SODDED SHALL RECEIVE 2" (MIN.) OF TOPSOIL. ACCOUNT FOR THICKNESS OF TOPSOIL WITH RESPECT TO FINISHED GRADES.

General Notes

1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND CONDITIONS OF ALL UTILITIES TO BE UTILIZED FOR CONSTRUCTION SERVICE HOOK UPS, STORM SEWERS AND SANITARY SEWERS PRIOR TO PROCEEDING WITH THE LAYING OF PIPE. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY OF ANY CONFLICTS OR DISCREPANCIES. ALL SERVICE CONNECTIONS TO UTILITIES SHALL BE APPROVED BY THE RESPECTIVE UTILITY AND SHALL CONFORM TO THE LATEST SPECIFICATIONS.

2. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES CONCERNING CONFLICTS, RELOCATION, REMOVAL, AND INTERRUPTIONS OF SERVICE.

3. THE WORK REQUIRED TO RELOCATE, REMOVE, INSTALL, REPLACE, ETC. UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WITHIN THE LIMITS OF WORK.

4. THE CONTRACTOR SHALL BE IN POSSESSION OF ALL REQUIRED PERMITS PRIOR TO ANY CONSTRUCTION EFFORTS.

5. ANY CHANGES OR REVISIONS MADE TO THE SITE PLANS SHALL BE SUBMITTED FOR APPROVAL TO THE CITY OF FLORENCE AND ALL OTHER PERTINENT AGENCIES.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXTENT, LOCATION AND ELEVATION OF THE EXISTING IMPROVEMENTS. IF ANY SIGNIFICANT DIFFERENCE IN SITE CONDITION OR ELEVATION IS FOUND, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY.

7. UNSTABLE AND PUMPING SUB GRADE CONDITIONS MAY OCCUR DURING SITE PREPARATION AND UNDERCUTTING OPERATIONS. PROPER PROTECTION OF SUB GRADE, DRAINAGE AND DEWATERING WILL BE CRITICAL TO SITE CONSTRUCTION EFFORTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MINIMIZE EQUIPMENT TRAFFIC ACROSS THE SITE. EVERY EFFORT SHALL BE MADE TO LOCALIZE EQUIPMENT STAGING AND TRAFFIC TO SPECIFIC AREAS AND LIMIT THE AMOUNT OF UNDERCUTTING AND SOIL STABILIZATION THAT MAY BE NEEDED. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR FURTHER RECOMMENDATIONS.

8. ALL GRADING OPERATIONS SHALL BE MONITORED BY A QUALIFIED GEOTECHNICAL CONSULTANT AS CHOSEN AND PAID FOR BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING SAID CONSULTANT IN ADVANCE OF ALL REQUIRED TESTING AND SECURING COPIES OF RESULTING REPORTS.

9. ALL EXCESS EXCAVATION CREATED BY GRADING OPERATIONS SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF SITE.

10. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB, CENTER OF STRIPE, FACE OF BUILDING OR AS SPECIFIED IN THE PLANS.

11. ALL SPOT ELEVATIONS SHOWN REFLECT ELEVATIONS AT GUTTER LINE, ASPHALT, OR FINISHED GROUND ELEVATION, UNLESS OTHERWISE NOTED. TOP AND BOTTOM ELEVATIONS FOR RETAINING WALLS (IF ANY) REPRESENT THE FINISHED GROUND ELEVATION AT THE WALL, NOT FOOTINGS, RAILINGS ETC.

12. ALL STORM DRAINAGE PIPE SHALL BE CLASS 3 MINIMUM REINFORCED CONCRETE PIPE WITH TYPE 1, 2 OR 3 BEDDING UNLESS SPECIFICALLY SHOWN OTHERWISE IN THE PLANS. IF ANOTHER TYPE OF PIPE IS SPECIFIED, BEDDING AND BACKFILL SHALL BE AS PER THE MANUFACTURER'S STANDARDS AND SPECS.

13. THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL CONNECTION POINT, SERVICE, SIZE, POLE LOCATIONS, AND TRANSFORMER LOCATIONS WITH THE SERVICE PROVIDER PRIOR TO CONSTRUCTION ACTIVITIES.

14. THE CONTRACTOR SHALL PAY ALL CONNECTION COSTS AND FEES, INCLUDING BUT NOT LIMITED TO TAPPING FEES, METER COSTS, SETTING CHARGES, AND CONNECTION CHARGES.

15. ALL DRAINAGE STRUCTURES, INLETS BOXES, MANHOLES, ETC. SHALL BE POURED IN PLACE OR PRE CAST CONCRETE AS REQUIRED.

16. BRICK WILL ONLY BE ALLOWED TO ADJUST GRADE ON STORM MANHOLES. THE MAXIMUM ALLOWABLE HEIGHT OF BRICK SHALL BE 11 INCHES.

17. ALL DRAINAGE STRUCTURES, INLET BOXES, AND CATCH BASINS SHALL HAVE 2" WEEP HOLES FORMED, OR DRILLED, ON ALL SIDES WHERE DRAINAGE PIPES DO NOT INTERFERE WITH THEM. ALL WEEP HOLES SHALL HAVE GRAVEL WRAPPED WITH FILTER FABRIC AT THEIR INTERFACE WITH BACK FILL TO AID GROUNDWATER FLOW TO THE WEEP HOLE.

18. THE CONTRACTOR SHALL USE SPILL OUT CURB AND GUTTER AS REQUIRED TO ENSURE POSITIVE DRAINAGE AND THAT NO WATER IS HELD IN THE LOW POINTS OF GUTTERS. THE TRANSITION FROM STANDARD GUTTER TO SPILLOUT GUTTER SHALL BE SMOOTH AND AESTHETICALLY PLEASING.

19. THE CONTRACTOR SHALL INSURE THAT ALL SIDEWALKS, RAMPS, AND ACCESSIBLE PARKING AREAS ARE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT AMERICANS WITH DISABILITIES ACT AND ARCHITECTURAL BARRIERS ACT ACCESSIBILITY GUIDELINES.

PERMANENT SEEDING SPECIFICATION

1. SEED MIXES

REFERENCE: ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2012 EDITION OR MOST CURRENT, SECTION 650, SECTION 652, SECTION 860, AND OTHERS AS APPLICABLE.

ZONE 1 - AREAS SUBJECT TO FREQUENT MOWING (REQUIRED LBS. PER ACRE)

DATE OF PLANTING	AUG. 16-FEB. 29	MAR. 1-MAY 15	MAY 16-AUG. 15
ANNUAL RYEGRASS	25		
HULLED BERMUDAGRASS		18	24
UNHULLED BERMUDAGRASS	30	12	
ANNUAL LESPEDEZA (KOBE)			38
WHITE DUTCH CLOVER	5	6	
REQD. PERMANENT PLANT		BERMUDAGRASS	

ZONE 1 - AREAS NOT SUBJECT TO FREQUENT MOWING (REQUIRED LBS. PER ACRE)

DATE OF PLANTING	JAN. 1-FEB. 29	MAR. 1-AUG. 15	AUG. 16-NOV. 15	NOV. 16-DEC. 31
ANNUAL RYEGRASS	15			15
HULLED BERMUDAGRASS		18		
UNHULLED BERMUDAGRASS	35	12	18	35
TALL FESCUE	35	35	35	35
WEEPING LOVEGRASS		2		
HULLED SERICEA LESPEDEZA		38	38	
UNHULLED SERICEA LESPEDEZA	38			38
RESEEDING CRIMSON CLOVER			29	
REQD. PERMANENT PLANT		MIXED		

2. FERTILIZER

APPLY 4000 LBS. AGRICULTURAL LIMESTONE PER ACRE.
APPLY 1000 LBS. OF FERTILIZER PER ACRE FOR GRASS SEEDING OR AS RECOMMENDED BY MANUFACTURER.
LIME AND FERTILIZER ARE TO BE DISKED INTO THE SOIL SURFACE TO A MINIMUM DEPTH OF 4 INCHES.

MANUFACTURED FERTILIZER

TYPE	NITROGEN (N)	PHOSPHORUS (P2O5)	POTASH (K20)
15-0-15	15	0	15
13-13-13	13	13	13
10-10-10	10	10	10
8-8-8	8	8	8
0-14-14	0	14	14
4-12-12	4	12	12
4-16-8	4	16	8
SUPER PHOSPHATE	0	18	0
AMMONIUM NITRATE	33.5	0	0
AMMONIUM SULPHATE	20.5	0	0
SODIUM NITRATE	16	0	0
POTASSIUM CHLORIDE	0	0	60

3. GENERAL NOTES AND MAINTENANCE

AFTER SEEDING, THE AREA IS TO BE ROLLED OR CULTIPACKED TO INSURE THAT THE SEED IS PRESSED INTO CONTACT WITH SOIL SURFACE. ALL SEEDED AREAS ARE TO BE MULCHED WITH STRAW MULCH AT THE RATE OF 4000 LBS. PER ACRE. (APPROX. 100 BALES PER ACRE.) APPLY ASPHALT EMULSION TO THE STRAW MULCH AT THE RATE OF 150 GALLONS PER ACRE.

THE ABOVE DESCRIBED SEEDING RECOMMENDATIONS AND RATES HAVE BEEN PREPARED FOR SELECTION OF A VEGETABLE COVER SUITABLE FOR SOIL EROSION CONTROL IN PLANTING ZONE 1 AS DEFINED BY THE ALDOT STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION, 2012 EDITION. THE CONTRACTOR SHALL VERIFY THE PLANTING ZONE THE PROJECT IS LOCATED WITHIN AND ALERT THE PROJECT ENGINEER OF ANY DISCREPANCIES.

MAINTENANCE

REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

SEEDING AND GRASSING NOTES

1. SCOPE OF WORK

GENERAL REQUIREMENTS : PROVIDE SEEDBED PREPARATION, TOPSOILING, LIMING, FERTILIZING, SEEDING AND MULCHING OF ALL NEWLY GRADED FINISH EARTH SURFACES, UNLESS INDICATED OTHERWISE, AND AT ALL AREAS INSIDE OR OUTSIDE THE LIMITS OF CONSTRUCTION THAT ARE DISTURBED BY THE CONTRACTOR'S OPERATIONS. REFERENCE ALDOT STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION, 2012 EDITION OR MOST CURRENT, SECTION 650, SECTION 652, SECTION 860, AND OTHERS AS APPLICABLE.

2. MATERIALS

FERTILIZER AND LIME : DELIVER MATERIALS TO THE SITE IN ORIGINAL, UNOPENED CONTAINERS BEARING THE MANUFACTURER'S CHEMICAL ANALYSIS, NAME, TRADE NAME, TRADEMARK, AND INDICATION OF CONFORMANCE TO STATE AND FEDERAL LAWS.

FERTILIZER : COMMERCIAL GRADE, FREE FLOWING, SLOW-RELEASE, UNIFORM IN COMPOSITION GRANULAR FERTILIZER SHALL CONTAIN A MINIMUM PERCENTAGE BY WEIGHT OF 17 PERCENT NITROGEN, 17 PERCENT AVAILABLE PHOSPHORIC ACID, AND 17 PERCENT POTASH. APPLY FERTILIZER AT THE RATE OF 500 POUNDS PER ACRE.

LIME : LIME SHALL BE COMMERCIAL AGRICULTURAL LIMESTONE CONTAINING A MINIMUM OF 94 PERCENT OF TOTAL CARBONATES, 80 PERCENT CALCIUM, AND 14 PERCENT MAGNESIUM. AGRICULTURAL LIMESTONE SHALL BE INCORPORATED INTO THE SOIL AT THE RATE OF 2000 POUNDS PER ACRE.

SEED : DELIVER SEED TO THE SITE IN ORIGINAL SEALED PACKAGES BEARING THE PRODUCER'S GUARANTEED ANALYSIS FOR PERCENTAGES OF MIXTURE, PURITY, GERMINATION, WEEDSEED CONTENT, AND INERT MATERIAL. LABEL IN CONFORMANCE WITH USDA FEDERAL SEED ACT AND APPLICABLE STATE SEED LAWS. WET MOLDY, OR OTHERWISE DAMAGED SEED WILL BE REJECTED. SEED SHALL BE STATE-CERTIFIED SEED AND OF THE LATEST SEASON'S CROP.

MULCH : FREE FROM NOXIOUS WEEDS, MOLD, OR OTHER DELETERIOUS MATERIAL. PROVIDE WOOD CELLULOSE FIBER MULCH WHEN HYDROSEEDING.

STRAW : STALKS FROM OATS, WHEAT, RYE, BARLEY, OR RICE. FURNISH IN AIR-DRY CONDITION AND OF PROPER CONSISTENCY FOR PLACING WITH COMMERCIAL MULCH BLOWING EQUIPMENT OR BY HAND.

WOOD CELLULOSE FIBER : PROCESSED TO CONTAIN NO GROWTH OR GERMINATION - INHIBITING FACTORS AND DYED AN APPROPRIATE COLOR TO FACILITATE VISUAL METERING OF MATERIAL'S APPLICATION. COMPOSITION ON AIR-DRY WEIGHT BASIS: 9-15 PERCENT MOISTURE, pH RANGE FROM 3.5 TO 5.0.

EMULSIFIED ASPHALT ADHESIVE : SUITABLE QUALITY FOR IRRIGATION.

WATER : SUITABLE QUALITY FOR IRRIGATION.

3. SEEDING

STORAGE AND HANDLING : STORE LIME, FERTILIZER, AND SEED IN DRY LOCATIONS AWAY FROM CONTAMINANTS. PROTECT SEED FROM DRYING OUT. DO NOT DROP OR DUMP MATERIALS FROM VEHICLES.

SOIL PREPARATION: AT THE COMPLETION OF ROUGH GRADING, SPREAD TOPSOIL OVER AREAS TO BE SEEDED OR AS SOIL PREPARATION INDICATED, TO A MINIMUM THICKNESS OF 2 INCHES. TOPSOIL SHALL BE IN THE MATERIAL STRIPPED FROM THE SITE DURING THE GRADING OPERATIONS. DO NOT SPREAD TOPSOIL WHEN FROZEN OR EXCESSIVELY WET OR DRY. AREAS NOT RECEIVING TOPSOIL SHALL BE LOOSENED TO A MINIMUM DEPTH OF 4 INCHES BEFORE AGRICULTURAL LIME, FERTILIZER OR SEED IS APPLIED. LAWN AREAS SHALL BE FINE GRADED TO A SMOOTH, POSITIVELY DRAINING SLOPE, REMOVING ALL STONES OVER ONE INCH.

SEEDING : SEED SHALL BE SOWN WITHIN 24 HOURS FOLLOWING THE APPLICATION OF FERTILIZER AND LIME, AND PREPARATION OF THE SEEDBED. DO NOT SEED WHEN THE GROUND IS MUDDY, FROZEN, SNOW COVERED, OR IN ANY UNSATISFACTORY CONDITION FOR SEEDING. IF SPECIAL CONDITIONS EXIST THAT MAY WARRANT A VARIANCE IN THE ABOVE SEEDING DATES OR CONDITIONS, SUBMIT A WRITTEN REQUEST TO THE ENGINEER STATING THE SPECIAL CONDITIONS AND PROPOSED VARIANCE.

SOW SEED WITH APPROVED SOWING EQUIPMENT USING ONE OR A COMBINATION OF THE FOLLOWING METHODS. SOW 1/2 THE SEED IN ONE DIRECTION AND SOW THE REMAINDER AT RIGHT ANGLES TO THE FIRST SOWING. FOR DRILL, BROADCAST, AND DROP SEEDING, INCORPORATE FERTILIZER AND LIME INTO THE SOIL TO A MINIMUM DEPTH OF 6 INCHES PRIOR TO SEEDING. FOR HYDROSEEDING, APPLY LIQUID FERTILIZER IN AMOUNTS SUFFICIENT TO PROMOTE THE SPECIFIED STAND OF TURF AND APPLY LIME MANUALLY DURING SUBGRADE PREPARATION.

DRILL SEEDING : USE CULTIPACKER SEEDERS OR GRASS SEED DRILLS. DRILL SEED UNIFORMLY TO A MAXIMUM DEPTH OF 1/4 INCH IN CLAYED SOILS AND 1/2 INCH IN SANDY SOILS. COVER SEED BY SPIKETOOTH HARROW, CULTIPACKER, OR OTHER APPROVED DEVICES.

BROADCAST SEEDING AND DROP SEEDING : USE BROADCAST OR DROP SEEDERS. COVER SEED UNIFORMLY TO A MAXIMUM DEPTH OF 1/4 INCH IN CLAYEY SOILS AND 1/2 INCH IN SANDY SOILS. COVER SEED BY SPIKE TOOTH HARROW, RAKING, OR OTHER APPROVED DEVICES. IMMEDIATELY AFTER SEEDING, FIRM ENTIRE AREA, EXCEPT FOR SLOPES IN EXCESS OF 3 TO 1, WITH A ROLLER NOT EXCEEDING 90 POUNDS FOR EACH FOOT OF ROLLER WIDTH.

HYDROSEEDING : MIX SEED, FERTILIZER, AND WOOD CELLULOSE FIBER IN REQUIRED AMOUNT OF WATER TO PRODUCE A HOMOGENEOUS SLURRY. AFTER SEED, WATER, AND FERTILIZER HAVE BEEN THOROUGHLY MIXED, ADD 200 POUNDS OF WOOD CELLULOSE FIBER PER ACRE (DRY WEIGHT) AND APPLY THE SLURRY. SEED SHALL NOT REMAIN IN WATER CONTAINING FERTILIZER FOR MORE THAN ONE HOUR PRIOR TO APPLICATION, UNLESS OTHERWISE APPROVED. KEEP LIQUID FERTILIZER AGITATED DURING APPLICATION. IMMEDIATELY FOLLOWING APPLICATION OF SLURRY MIX, MAKE SEPARATE APPLICATION OF WOOD CELLULOSE MULCH AT THE RATE OF 800 POUNDS (DRY WEIGHT) PER ACRE. WHEN HYDRAULICALLY SPRAYED ON THE GROUND, MATERIAL SHALL FORM A BLOTTERLIKE COVER IMPREGNATED UNIFORMLY WITH GRASS SEED. COVER SHALL ALLOW RAINFALL OF APPLIED WATER TO PERCOLATE TO UNDERLYING SOIL. TOTAL APPLICATION SHOULD EQUAL 2 TONS/ACRE MULCH.

MULCH : EXCEPT WHEN HYDROSEEDING, SPREAD STRAW MULCH EVENLY AT THE RATE OF 2 TONS PER ACRE. ANCHOR BY CRIMPING MULCH WITH A SERRATED DISC OR BY SPRAYING ASPHALT EMULSION ON THE MULCHED SURFACE AT THE RATE OF 5 GALLONS PER 1000 SQUARE FEET. TAKE PRECAUTIONARY MEASURES TO PREVENT ASPHALT MATERIALS FROM MARKING OR DEFACING STRUCTURES, PAVEMENTS, UTILITIES, OR PLANTINGS AND DO NOT USE ASPHALT NEAR PEDESTRIAN TRAFFIC AREAS.

PROTECTION OF SEEDED AREAS : IMMEDIATELY AFTER SEEDING, PROTECT THE AREA AGAINST TRAFFIC OR OTHER USE BY ERECTING BARRICADES, AS REQUIRED, AND PLACING APPROVED SIGNS AT APPROPRIATE INTERVALS UNTIL FINAL ACCEPTANCE.

4. RESTORATION, ESTABLISHMENT, AND FINAL INSPECTION

RESTORATION : RESTORE TO ORIGINAL CONDITION EXISTING LAWN AREAS WHICH WERE DAMAGED DURING GRASSING OPERATIONS. KEEP AT LEAST ONE PAVED PEDESTRIAN ACCESS ROUTE AND ONE PAVED VEHICULAR ACCESS ROUTE TO EACH BUILDING CLEAN AT ALL TIMES. CLEAN OTHER PAVING WHEN WORK IN ADJACENT AREAS IS COMPLETE.

ESTABLISHMENT PERIOD : THE ESTABLISHMENT PERIOD WILL BE IN EFFECT UNTIL THE SEEDED AND SODDED AREAS ARE MOWED THREE TIMES. DURING THE ESTABLISHMENT PERIOD, THE CONTRACTOR SHALL MOW THE SEEDED AND SODDED AREAS TO AN AVERAGE HEIGHT OF 2 INCHES WHENEVER THE AVERAGE HEIGHT OF GRASS REACHES 4 INCHES. THE CONTRACTOR SHALL REMOVE EXCESS CLIPPINGS, ERADICATE WEEDS, WATER, FERTILIZE, OVERSEED, AND PERFORM OTHER OPERATIONS NECESSARY TO PROMOTE GROWTH.

FINAL INSPECTION AND ACCEPTANCE : AT THE END OF THE ESTABLISHMENT PERIOD, FINAL INSPECTION WILL BE MADE UPON WRITTEN REQUEST AT LEAST 10 DAYS PRIOR TO THE ANTICIPATED DATE. FINAL ACCEPTANCE WILL BE BASED UPON A SATISFACTORY STAND OF GRASS, DEFINED AS 95 PERCENT GROUND COVER OF THE SPECIFIED SPECIES. THE CONTRACTOR WILL REPAIR ANY BARE SPOTS OVER 2 INCHES SQUARE DUE TO UNEVEN SEED DISTRIBUTION.

RESEEDING AND REPAIR : ANY AREAS THAT REQUIRE RESEEDING AND/OR REFERTILIZATION WILL BE DESIGNATED BY THE OWNER/ENGINEER. ANY DAMAGE FOLLOWING SEEDING OR IF SEEDINGS ARE DESTROYED, THE PORTION AFFECTED SHALL BE REPAIRED TO RE-ESTABLISHMENT CONDITION AND GRADE OF THE SOIL PRIOR TO ORIGINAL SEEDING, AND THEN RESEEDED FOLLOWING THE ABOVE SPECIFICATIONS.

TEMPORARY SEEDING SPECIFICATION

REFERENCE: ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2012 EDITION OR MOST CURRENT, SECTION 665, SECTION 860, AND OTHERS AS APPLICABLE.

SEPTEMBER - DECEMBER	
ANNUAL RYE GRASS	25 LBS. PER ACRE
KENTUCKY 31 FESCUE	30 LBS. PER ACRE
RESEEDING CRIMSON CLOVER	10 LBS PER ACRE
JANUARY - APRIL 15	
KENTUCKY 31 FESCUE	30 LBS. PER ACRE
RESEEDING CRIMSON CLOVER	30 LBS. PER ACRE
ANNUAL RYEGRASS	15 LBS. PER ACRE
APRIL 16 - AUGUST	
BROWN TOP MILLET	30 LBS. PER ACRE
KENTUCKY 31 FESCUE	30 LBS. PER ACRE
HULLED BERMUDA GRASS	10 LBS. PER ACRE

AFTER SEEDING, THE AREA IS TO BE ROLLED OR CULTIPACKED TO INSURE THAT THE SEED IS PRESSED INTO CONTACT WITH SOIL SURFACE. ALL SEEDED AREAS ARE TO BE MULCHED WITH STRAW MULCH AT THE RATE OF 4000 LBS. PER ACRE. (APPROX. 100 BALES PER ACRE.) APPLY ASPHALT EMULSION TO THE STRAW MULCH AT THE RATE OF 150 GALLONS PER ACRE.

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UNA PARKING LOT C EXPANSION
FLORENCE, AL

GMC Project # ABHM220004

STATE OF ALABAMA LICENSED No. 38073 PROFESSIONAL ENGINEER COREY ANDREW SHOOP
10-10-2022

GENERAL NOTES

C0.1

DRAWING FILE: E:\+Projects\CBHM220011 - UNA Parking Lot C Expansion\0 DWG\C0.1 General Notes.dwg
PLOTTED: Oct 10, 2022 - 4:28pm

DEMO LEGEND

- ASPHALT PAVEMENT TO BE REMOVED
- CONCRETE SIDEWALK TO BE REMOVED
- CURB AND GUTTER TO BE REMOVED
- LIGHT POLES TO BE REMOVED
- TREES TO BE REMOVED OR RELOCATED AS REQUIRED

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)

1 inch = 10 ft.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF THE LOCATION OF ALL UTILITIES IN ALL AREAS TO BE REMOVED OR DEMOLISHED, PRIOR TO COMMENCEMENT OF WORK. THE UTILITIES TO BE LOCATED SHALL INCLUDE, BUT NOT BE LIMITED TO WATER, GAS, SANITARY SEWER, STORM SEWER, SITE LIGHTING, IRRIGATION, SECURITY, CABLE, SITE ELECTRICAL, FIBER OPTIC, AND TELEPHONE.
2. ALL UTILITIES TO BE REMOVED SHALL BE CUT, REMOVED, CAPPED, ETC. ACCORDING TO ALL GOVERNING AGENCIES SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY AGENCIES PRIOR TO ANY WORK BEING PERFORMED ON THEIR RESPECTIVE LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING AND INFORMING EACH UTILITY AGENCY OF THE SCOPE OF WORK AND SCHEDULE OF COMPLETION, AND SHALL COORDINATE ALL INSPECTIONS.
3. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS IN THE FIELD AND SHALL LOCATE ON THE GROUND WITH PAINT OR OTHER EASILY VISIBLE MEANS ALL UNDERGROUND UTILITIES PRIOR TO ANY CONSTRUCTION EFFORTS. THE UTILITIES TO BE LOCATED SHALL INCLUDE, BUT NOT BE LIMITED TO WATER, GAS, SANITARY SEWER, STORM SEWER, SITE LIGHTING, IRRIGATION, SECURITY, CABLE, SITE ELECTRICAL, AND TELEPHONE. CONFLICTS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER IMMEDIATELY. THE UTILITIES SHOWN ARE ILLUSTRATED AS LOCATED ON THE GROUND BY LINE LOCATORS, SURVEY OF ABOVE GROUND STRUCTURES, AND/OR ACCORDING TO UTILITY MAPS OR UTILITY ADMINISTRATOR'S RECOLLECTION, AND ARE PROVIDED AS INFORMATION ONLY.
4. THE CONTRACTOR SHALL PRESERVE AND PROTECT, ACCORDING TO THE INSTRUCTIONS OF THE UTILITY INVOLVED, ANY "LIVE" UTILITIES LOCATED BY THE UTILITY COMPANY OR THE CONTRACTOR.
5. DEMOLITION ITEMS SHOWN ARE CONSIDERED TO BE A MINIMUM. UNDERGROUND STORAGE TANKS AND UNMARKED UTILITIES SHOULD ALSO BE REMOVED AND BACKFILLED WITH PROPERLY COMPACTED MATERIAL. THESE UTILITIES MAY INCLUDE, BUT NOT LIMITED TO SANITARY SEWER LATERALS, TELEPHONE LINES, CABLE LINES, GAS LINES, WATER LINES, ETC.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL CONCRETE, SIDEWALKS, WALLS, ETC. DAMAGED DURING CONSTRUCTION. ALL DISTURBED AREAS SHALL BE RESTORED TO THE ORIGINAL CONDITION OR AS ACCEPTED BY THE OWNER.

EX. CURB AND GUTTER TO BE SAWCUT AND REMOVED
EX. HANDICAP SIGN TO BE REMOVED AND RELOCATED
REQ'D PRESERVE AND PROTECT EX. GRATE INLET
EX. CURB AND GUTTER TO BE SAWCUT AND REMOVED
EX. ASPHALT TO BE SAWCUT AND REMOVED (SEE C1.0 SITE LAYOUT AND UTILITY PLAN)
EX. HANDICAP SIGN TO BE REMOVED AND RELOCATED
EX. LIGHT POLE TO BE REMOVED
EX. SIGN TO BE REMOVED
EX. CONCRETE SIDEWALK TO BE REMOVED
EX. TREE TO BE REMOVED
EX. PLANTER TO BE REMOVED
DEMOLITION WORK IN THIS AREA DONE AS PART OF PREVIOUS PACKAGE
EX. CURB AND GUTTER TO BE SAWCUT AND REMOVED
EX. ASPHALT TO BE SAWCUT AND REMOVED
EX. CURB AND GUTTER TO BE SAWCUT AND REMOVED
EX. SIGN TO BE REMOVED
EX. CURB AND GUTTER TO BE SAWCUT AND REMOVED
EX. ASPHALT TO BE SAWCUT AND REMOVED
EX. SIGN TO BE REMOVED
EX. CURB AND GUTTER TO BE SAWCUT AND REMOVED
EX. ASPHALT TO BE SAWCUT AND REMOVED
EX. SIGN TO BE REMOVED
EX. CONCRETE SIDEWALK TO BE REMOVED
EX. CURB AND GUTTER TO BE SAWCUT AND REMOVED
EX. ASPHALT TO BE SAWCUT AND REMOVED
EX. CONCRETE SIDEWALK TO BE REMOVED

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DEMOLITION PLAN

C0.2
SHEET 3 of 11

10-10-2022

DRAWING FILE E:\Projects\ABHM220001 - UNA Parking Lot C Expansion\0 DWG\C0\C0.2 Demo.dwg
PLOTTED: Oct 10, 2022 - 4:04pm

LEGEND

- STANDARD DUTY ASPHALT
- 1" MILL AND OVERLAY
- HEAVY DUTY CONCRETE PAVEMENT
- CONCRETE SIDEWALK (SEE TYP. SEC.)
- WHEEL STOP (SEE DETAILS)

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)

1 inch = 10 ft.

REQ'D TIE TO EX. CURB TO BE FLUSH AND AT GRADE
REQ'D 10' CURB TRANSITION FROM 6" - 0" (SEE DETAILS)
REQ'D 18" CURB & GUTTER (SEE DETAILS)
PROPOSED LIGHT POLE (SEE ELECTRICAL DWGS)
REQ'D ADA PARKING AND SIGNAGE (SEE DETAILS)
REQ'D CONCRETE WHEEL STOPS (SEE DETAILS)
REQ'D 10' CURB TRANSITION FROM 6" - 0" (SEE DETAILS)
REQ'D ADA PARKING AND SIGNAGE (SEE DETAILS)
REQ'D TIE TO EX. CONCRETE SIDEWALK TO BE FLUSH AND AT GRADE
REQ'D CONCRETE WHEEL STOPS (SEE DETAILS)
REQ'D 10' CURB TRANSITION FROM 6" - 0" (SEE DETAILS)
EX. LIGHT POLE TO BE REMOVED AND RELOCATED
REQ'D 1" MILL AND OVERLAY
REQ'D TIE TO EX. CURB TO BE FLUSH AND AT GRADE
PROPOSED LIGHT POLE (SEE ELECTRICAL DWGS)
REQ'D 18" CURB & GUTTER (SEE DETAILS)
REQ'D TIE TO EX. CURB AND GUTTER TO BE FLUSH AND AT GRADE
REQ'D ADA RAMP (SEE DETAILS)
PROPOSED LIGHT POLE (SEE ELECTRICAL DWGS)
REQ'D TIE TO EX. ASPHALT TO BE FLUSH AND AT GRADE
REQ'D STANDARD DUTY ASPHALT PAVEMENT
REQ'D TIE TO EX. ASPHALT TO BE FLUSH AND AT GRADE
REQ'D TIE TO EX. CURB TO BE FLUSH AND AT GRADE
REQ'D 18" CURB & GUTTER (SEE DETAILS)
EX. LIGHT POLE TO BE REMOVED AND RELOCATED
REQ'D 1" MILL AND OVERLAY
PROPOSED LIGHT POLE (SEE ELECTRICAL DWGS)
REQ'D TIE TO EX. CURB AND GUTTER TO BE FLUSH AND AT GRADE
REQ'D ADA RAMP (SEE DETAILS)
PROPOSED LIGHT POLE (SEE ELECTRICAL DWGS)
REQ'D 18" CURB & GUTTER (SEE DETAILS)
PROPOSED LIGHT POLE (SEE ELECTRICAL DWGS)
REQ'D CURB TRANSITION FROM 6" - 0" (SEE DETAILS)
REQ'D CONCRETE SIDEWALK (SEE DETAILS)
REQ'D TIE TO EX. CONCRETE SIDEWALK TO BE FLUSH AND AT GRADE
REQ'D CONCRETE WHEEL STOP (SEE DETAILS)
REQ'D ADA PARKING AND SIGNAGE (SEE DETAILS)
REQ'D 1" MILL AND OVERLAY
EX. LIGHT POLE TO BE REMOVED AND RELOCATED
REQ'D 1" MILL AND OVERLAY
REQ'D CURB TRANSITION FROM 6" - 0" (SEE DETAILS)
PROPOSED LIGHT POLE (SEE ELECTRICAL DWGS)
REQ'D TIE TO EX. ASPHALT TO BE FLUSH AND AT GRADE
REQ'D STANDARD DUTY ASPHALT PAVEMENT
REQ'D MONUMENT SIGN (SEE A-DRAWINGS)
REQ'D TIE TO EX. CONCRETE SIDEWALK TO BE FLUSH AND AT GRADE
REQ'D TIE TO EX. CONCRETE TO BE FLUSH AND AT GRADE
REQ'D ADA RAMP (SEE DETAILS)
REQ'D 6" FLUSH CURB (SEE DETAILS)
REQ'D CONCRETE WHEEL STOPS (SEE DETAILS)
REQ'D CONCRETE SIDEWALK (SEE DETAILS)
REQ'D CONCRETE WHEEL STOPS (SEE DETAILS)
REQ'D 6" FLUSH CURB (SEE DETAILS)
REQ'D TIE TO EX. CURB TO BE FLUSH AND AT GRADE
REQ'D CONCRETE TURNOUT (SEE DETAILS)
REQ'D TIE TO EX. CURB TO BE FLUSH AND AT GRADE
REQ'D 6" CURB (SEE DETAILS)
REQ'D TIE TO EX. CURB TO BE FLUSH AND AT GRADE
REQ'D TIE TO EX. CURB TO BE FLUSH AND AT GRADE
REQ'D 6" CURB (SEE DETAILS)
REQ'D TIE TO EX. CURB TO BE FLUSH AND AT GRADE
ROW
NORTH WOOD AVENUE
℄ EX. PAVEMENT

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GMC Project # ABHM220004

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 28073 ADAM CORBETT ANDREW

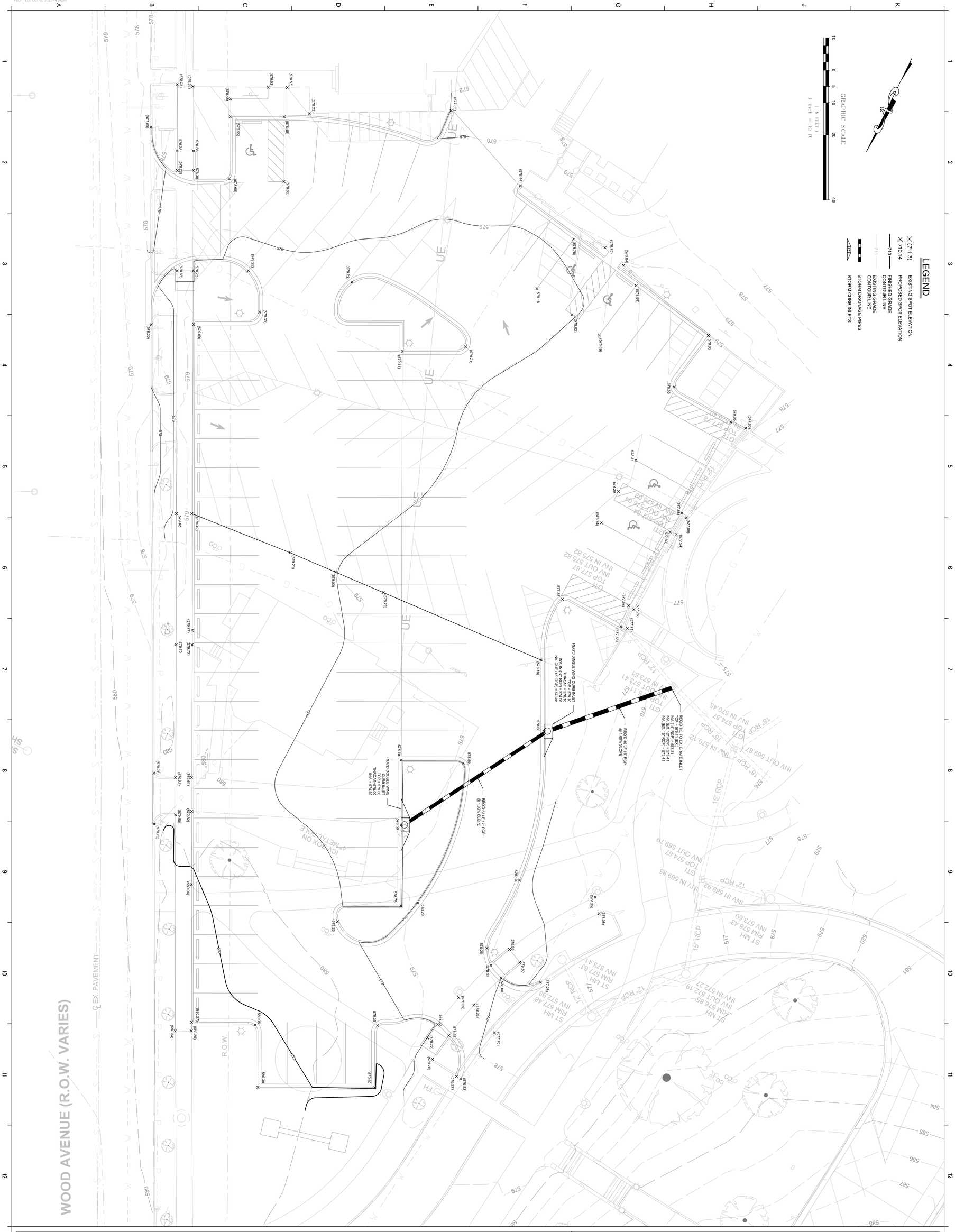
10-10-2022

SITE LAYOUT PLAN

C1.0
sheet 4 of 11

DRAWING FILE: E:\~Projects\2GMH\22001 - UNA Parking Lot C Expansion\0 DWG\C1\0 Site Layout and Utility Plan.dwg
PLOTTED: OCT 10, 2022 - 2:26pm

DRAWING FILE: E:\+Projects\CBHM220011 - UNA Parking Lot C Expansion\0 DWG\C2.0 Grading and Drainage Plan.dwg
PLOTTED: Oct 10, 2022 - 4:34pm



GRADING AND DRAINAGE PLAN

C2.0
sheet 5 of 11

UNA PARKING LOT C EXPANSION
FLORENCE, AL

ALABAMA LICENSED No. 38073 PROFESSIONAL ENGINEER COREY ANDREW SHOOP

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LEGEND

- CLASS-A WIRE REINFORCED SILTFENCE
- FILTER SACK
- INLET PROTECTION
- CONSTRUCTION ENTRANCE

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)

1 inch = 10 ft.

EROSION AND SEDIMENTATION CONTROL LEGEND

Site Preparation

CEP	Construction Exit Pad
LG	Land Grading
TSG	Top soiling

Surface Stabilization

CHS	Chemical Stabilization
DSF	Dune Sand Fence
DVP	Dune Vegetation Planting
DW	Dune Walkover
DC	Dust Control
ECB	Erosion Control Blanket
GK	Grounds keeping
MU	Mulching
PS	Permanent Seeding
PV	Preservation of Vegetation
RW	Retaining Wall
SVG	Shrub, Vine and Ground cover Plantings
SOD	Sodding
TS	Temporary Seeding
TP	Tree Planting on Disturbed Areas
CFM	Cotton Fiber Matrix Hydroseeding

Runoff Conveyance

CD	Check Dam
DV	Diversion Channel
DRS	Drop Structure
GS	Grass Swale
LS	Lined Swale
OP	Outlet Protection
RS	Riprap-lined Swale
SD	Subsurface Drain
TDS	Temporary Slope Drains

Sediment Control

BIP	Block and Gravel Inlet
BFB	Brush/Fabric Barrier
EIP	Excavated Drop Inlet Protection
FIP	Fabric Drop Inlet Protection
FS	Filter Sack
DS	Dandy Sack
FB	Floating Turbidity Barrier
RD	Rock Filter Dam
SB	Sediment Barrier
SBN	Sediment Basin
SST	Straw Bale Sediment Trap
TST	Temporary Sediment Trap
SL	Sediment Log (20") / Wattle
HIF	HDPE Inlet Filter
PFL	Anionic Polyacrylamide Storm Water Floculant Log
PFP	Anionic Polyacrylamide Storm Water Floculant Powder

Storm water Management

PP	Porous Pavement
SDB	Storm Water Detention Basin
TRE	Temporary Inlet Riser Extension

Stream Protection

BZ	Buffer Zone
CS	Channel Stabilization
SP	Stream bank Protection
TSC	Temporary Stream Crossing
BG	Baffle Grid

BEST MANAGEMENT PRACTICES NOTES

1. OTHER THAN LAND-CLEARING ACTIVITIES REQUIRED TO INSTALL THE APPROPRIATE BMP IN ACCORDANCE WITH THE BMP PLANS, ANY DOWN SLOPE EROSION AND SEDIMENT CONTROL MEASURES, ON-SITE STREAM CHANNEL PROTECTION AND UPSLOPE DIVERSION OF DRAINAGE REQUIRED BY THE BMP PLAN SHALL BE IN PLACE AND FUNCTIONAL BEFORE ANY CLEARING OR EARTH MOVING OPERATIONS BEGIN AND SHALL BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT SHALL BE REPLACED AT THE END OF THE WORKDAY WITH WRITTEN PERMISSION FROM THE OWNER/OFFICIAL. THE CONTRACTOR MAY PHASE THE INSTALLATION/REMOVAL OF THE BMP'S TO COORDINATE WITH THE CONSTRUCTION PROCESS.
2. THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE, WHICH CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES. ANY SLOPE OR FILL WHICH HAS BEEN GRADED SHALL WITHIN THIRTEEN (13) DAYS OF THE COMPLETION OF SUCH GRADING OR THE COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE BE PROVIDED WITH GROUND COVER, MATERIALS, DEVICES, OR STRUCTURES SUFFICIENT TO RETAIN EROSION. THE BMPS SHALL REMAIN IN PLACE IN ACCORDANCE WITH THE BMP PLAN UNTIL THE GRADED SLOPE OR FILL IS STABILIZED.
3. ALL CONTROL MEASURES SHALL BE CHECKED, AND REPAIRED AS NECESSARY, MONTHLY IN DRY PERIODS, AND WITHIN 24 HOURS AFTER ANY RAINFALL AT THE SITE OF .75 INCH WITHIN A 24 HOUR PERIOD. DURING PROLONGED RAINFALLS, DAILY CHECKING AND, IF NECESSARY, REPAIRING SHALL BE DONE. THE PERMITTEE SHALL MAINTAIN WRITTEN RECORDS OF SUCH CHECKS AND REPAIRS, WHICH RECORDS SHALL BE SUBJECT TO THE INSPECTION OF THE OFFICIAL AT ANY REASONABLE TIME.
4. CONTROL MEASURES SHALL BE MAINTAINED AS AN EFFECTIVE BARRIER TO SEDIMENTATION AND EROSION IN ACCORDANCE WITH THE PROVISIONS OF THIS ORDINANCE.
5. ALL BEST MANAGEMENT PRACTICES SHALL BE DEVELOPED AND MAINTAINED BY THE CONTRACTOR ACCORDING TO THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS (MARCH 2014 ed.) BY THE ALABAMA SOIL AND WATER CONSERVATION COMMITTEE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND FAMILIARIZING HIMSELF WITH THE HANDBOOK AND THE STANDARDS AND MATERIALS CONTAINED THEREIN. THE HANDBOOK MAY BE PURCHASED FROM THE ALABAMA CHAPTER OF THE SOIL AND WATER CONSERVATION SOCIETY.
6. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED ACCORDING TO ALL ADEM AND EPA BEST MANAGEMENT PRACTICES AND THE NPDES PERMIT ASSOCIATED WITH THIS SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR, REPLACEMENT, AND/OR SUPPLEMENTATION OF ANY CONTROL MEASURES THAT ARE NOT FUNCTIONING PROPERLY. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHOWN ON THE PLANS SHALL BE CONSIDERED A MINIMUM.

NOTES :

1. ALL LANDSCAPING AREAS SHALL BE AS PER THE LANDSCAPE DRAWING.
2. ALL REGRADED AREAS NOT TO BE PAVED, SHALL BE SEEDED AND MULCHED ACCORDING TO A.L.D.O.T. PERMANENT SEEDING SCHEDULES.
3. ALL BEST MANAGEMENT PRACTICES SHOWN SHALL BE CONSIDERED A MINIMUM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE BMP'S ACCORDING TO ALL ADEM/EPA STANDARDS & SPECIFICATIONS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING, REPAIRING AND SUPPLEMENTING THE BMP'S SHOWN IN ORDER TO COMPLY W/THE NPDES PERMIT FOR THIS SITE.
5. THE CONTRACTOR SHALL MAINTAIN ALL BMP'S UNTIL AN ACCEPTABLE STAND OF GRASS HAS BEEN ACHIEVED AND A NOTICE OF TERMINATION HAS BEEN FILED W/ADEM
6. THE USE OF A PARTICULAR INLET PROTECTION METHOD SHALL BE APPROPRIATE FOR THE PHASE OF CONSTRUCTION.
7. ALL BMP'S LOCATED WITHIN THE RIGHT-OF-WAY SHALL BE MATERIALS APPROVED BY ALDOT AND SHALL BE INSTALLED AS PER ALDOT STDS. & SPECIFICATIONS

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BEST MANAGEMENT PRACTICES

C3.0
sheet 6 of 11

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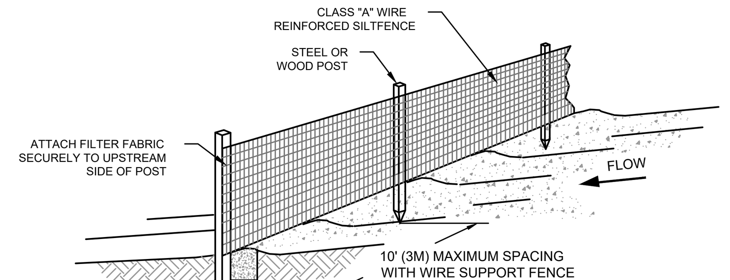
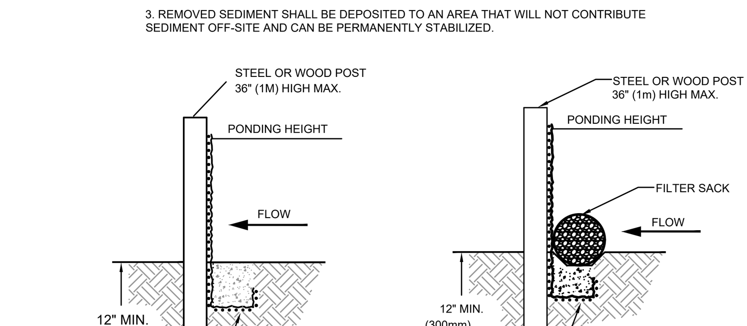
PLOTTED: Oct 10, 2022 - 10:45am



NOTES:
1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225MM) MAXIMUM RECOMMENDED STORAGE HEIGHT.

3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

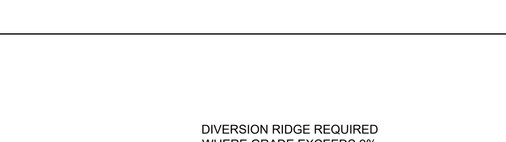


TRENCH DETAIL

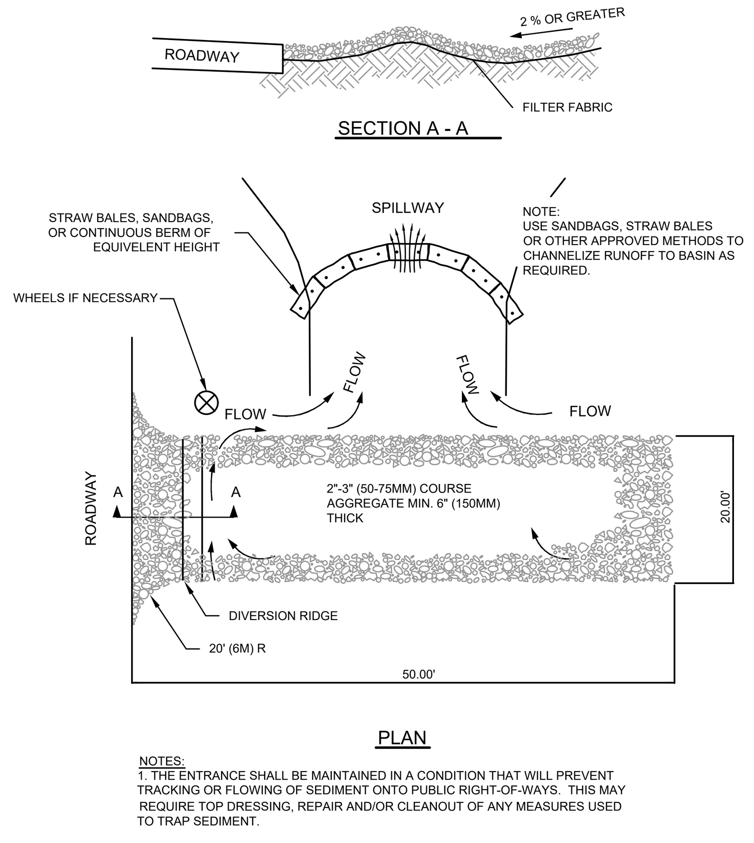
TRENCH DETAIL WITH FILTER SACK

SILT FENCE DETAIL

N.T.S.



SECTION A - A



PLAN

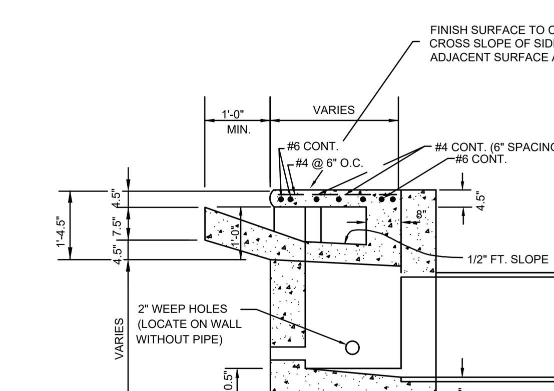
NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.

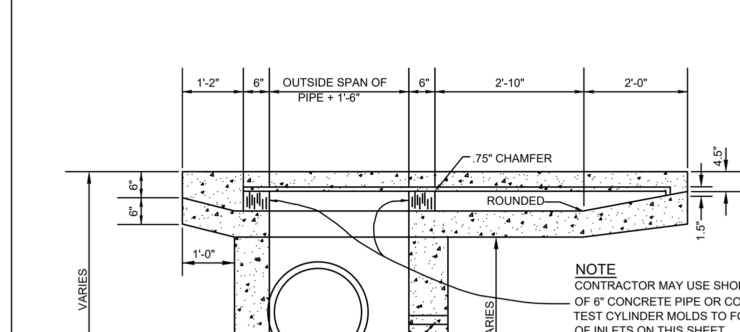
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABLIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT DETAIL

N.T.S.

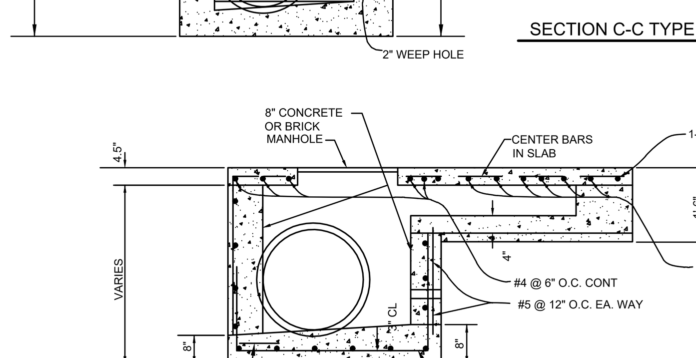


SECTION B-B TYPE "A"



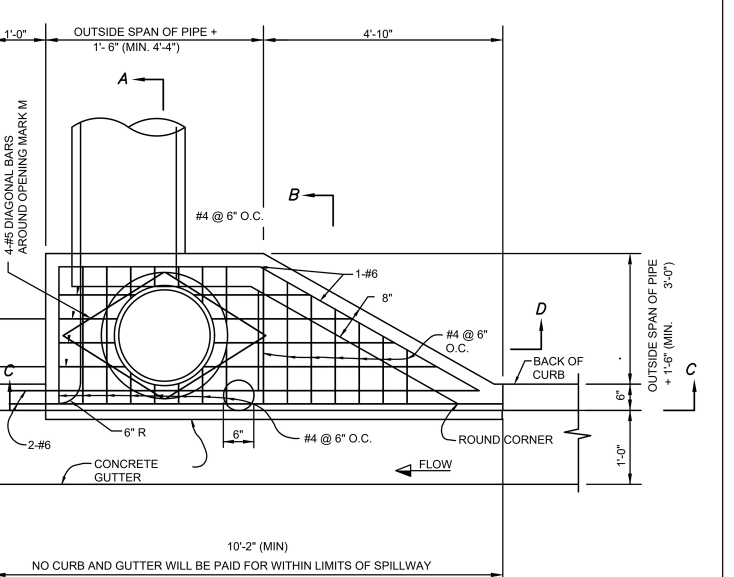
NOTE
CONTRACTOR MAY USE SHORT SECTION OF 6" CONCRETE PIPE OR CONCRETE TEST CYLINDER MOLDS TO FORM THROATS OF INLETS ON THIS SHEET.

SECTION C-C TYPE "A"



NOTE
MANHOLE STEPS REQUIRED @ 16" O.C. IF THE BOX EXCEEDS 4'-0" DEEP. (PLACE ON WALL W/O OPENING)

SECTION D-D TYPE "A"

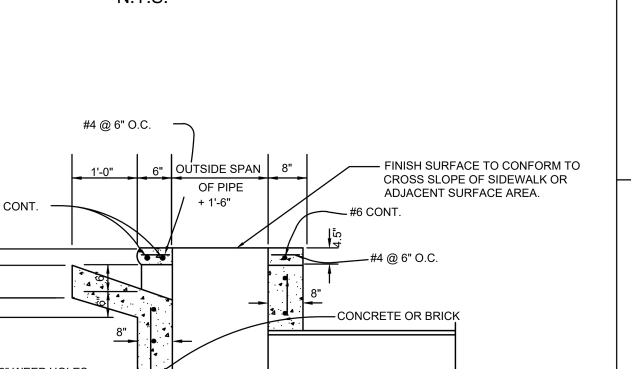


NOTE
FOR DOUBLE WING INLETS, MIRROR TOP OF INLET ABOUT THE CENTER OF THE LID.

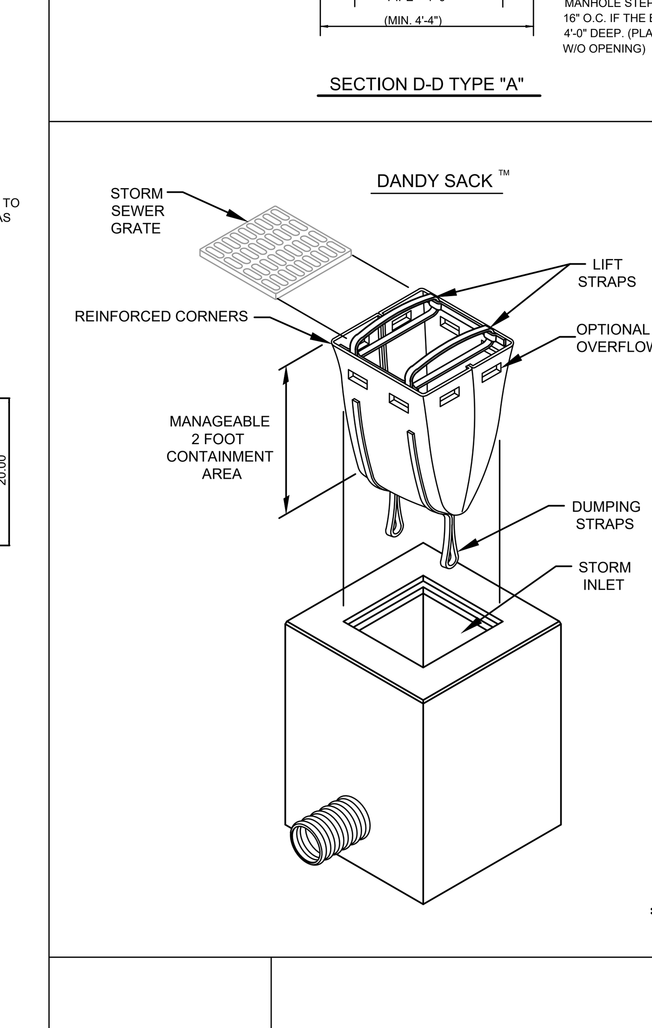
PLAN - TYPE "A"

TYPE S INLET DETAIL

N.T.S.



SECTION A-A TYPE "A"



DANDY SACK™
SPECIFICATIONS

NOTE: THE DANDY SACK™ WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

REGULAR FLOW DANDY SACK™ (BLACK)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.78 (400) x 1.40 (315)
Grab Tensile Elongation	ASTM D 4632	%	15 x 15
Puncture Strength	ASTM D 4833	kN (lbs)	0.67 (150)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	5506 (800)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.67 (150) x 0.73 (165)
UV Resistence	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	1/min/m² (gal/min/ft²)	2852 (70)
Permittivity	ASTM D 4491	Sec⁻¹	0.90

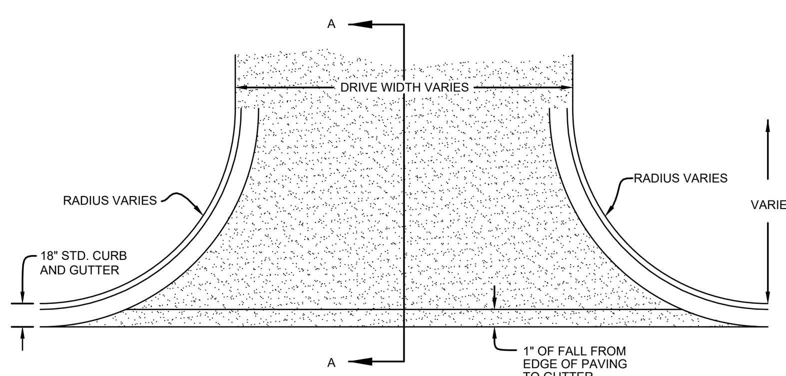
HI-FLOW DANDY SACK™ (SAFETY ORANGE)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.62 (365) X 0.89 (200)
Grab Tensile Elongation	ASTM D 4632	%	24 X 10
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3097 (450)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.51 (115) X 0.33 (75)
UV Resistence	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	1/min/m² (gal/min/ft²)	5907 (145)
Permittivity	ASTM D 4491	Sec⁻¹	2.1

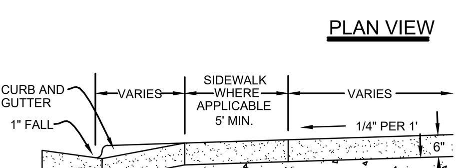
*Note: All Dandy Sacks™ can be ordered with our optional oil absorbent pillows

DANDY SACK INLET PROTECTION

N.T.S.



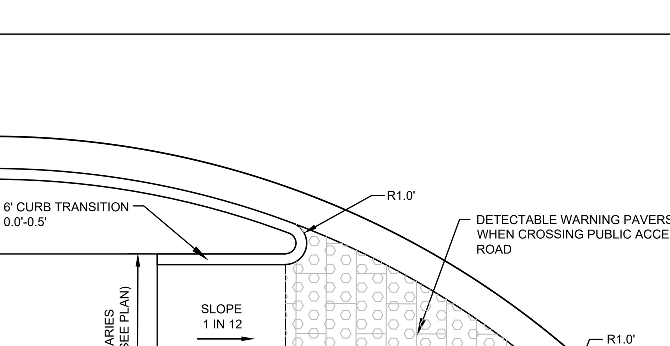
PLAN VIEW



SECTION A-A

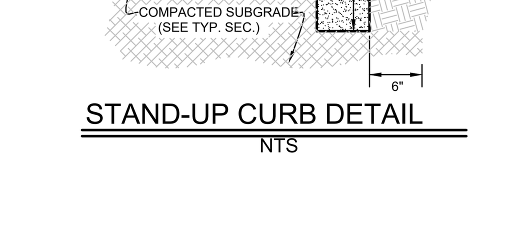
STANDARD CONCRETE DRIVEWAY TURNOUT DETAIL

NTS



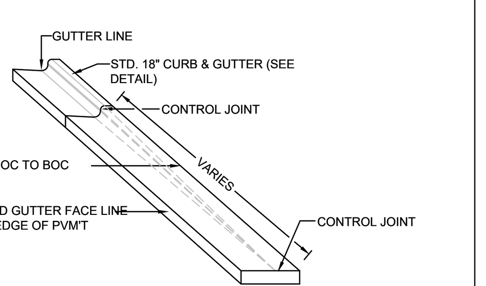
CONCRETE SIDEWALK AND HANDICAP DETAIL

NTS



STAND-UP CURB DETAIL

NTS



18" CURB TRANSITION DETAIL

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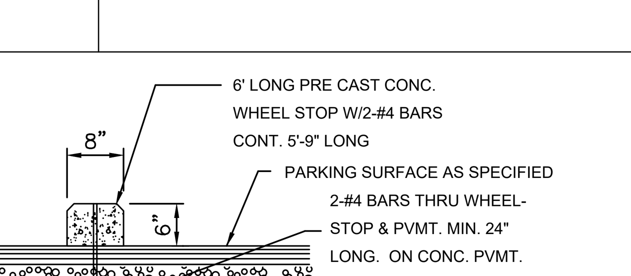

WHEEL STOP DETAIL

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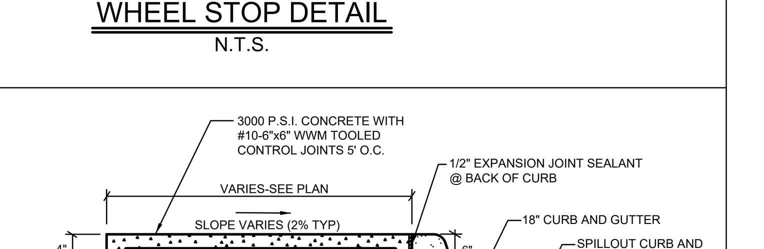

SIDEWALK DETAIL

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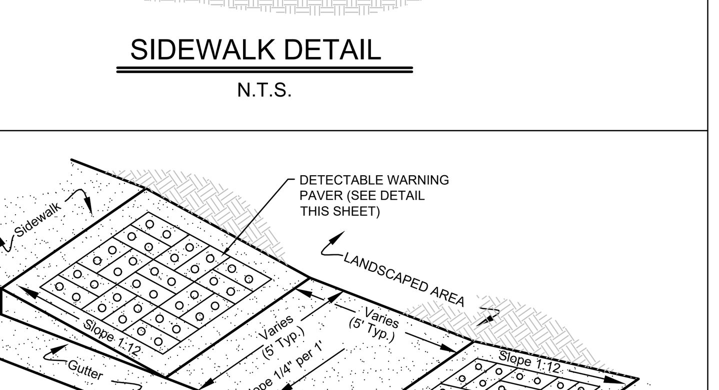
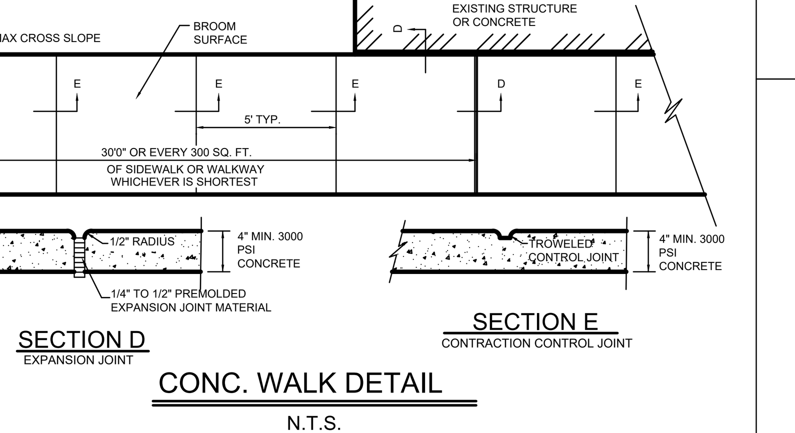


TYPICAL CURB CUT FOR HANDICAPPED ACCESS RAMP ALONG SIDEWALK

N.T.S.

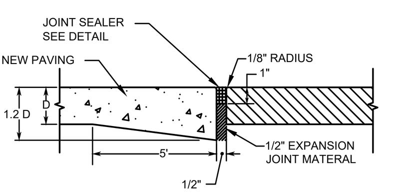


SECTION D
EXPANSION JOINT

SECTION E
CONTRACTION CONTROL JOINT

CONC. WALK DETAIL

N.T.S.



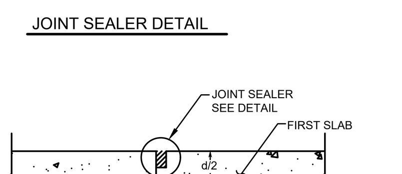
CONCRETE/ASPHALT INTERFACE DETAIL

N.T.S.

SAWED CONTROL JOINT

N.T.S.

JOINT SEALER DETAIL



LONGITUDINAL CONSTRUCTION JOINT (AND AT END OF A DAY'S WORK)

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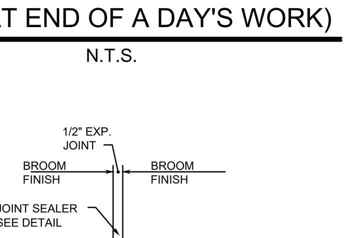

EXPANSION JOINT DETAIL

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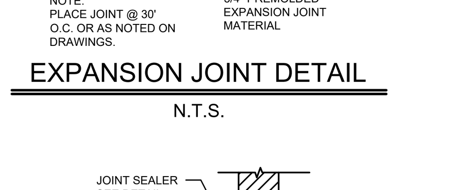

EDGE OF STRUCTURE DETAIL

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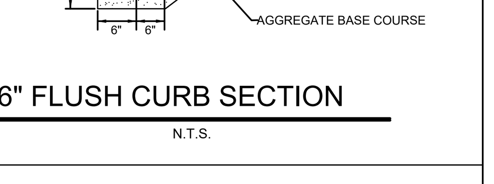

6" FLUSH CURB SECTION

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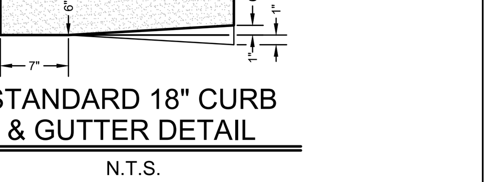

STANDARD 18" CURB & GUTTER DETAIL

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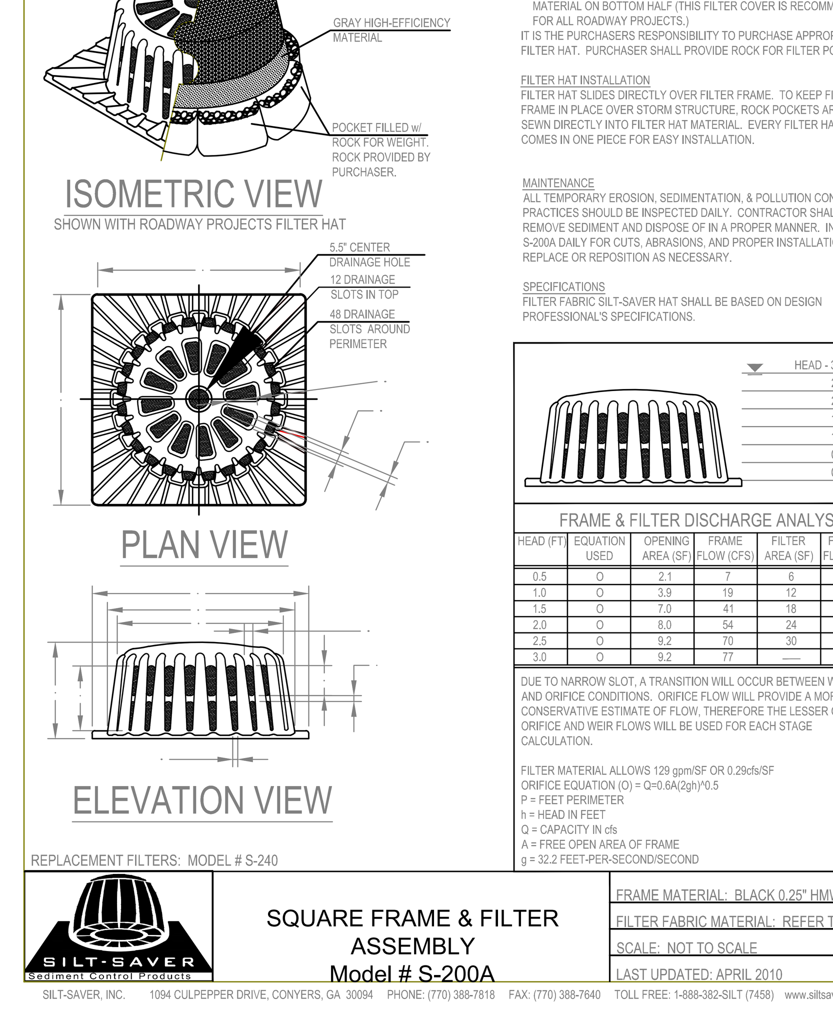
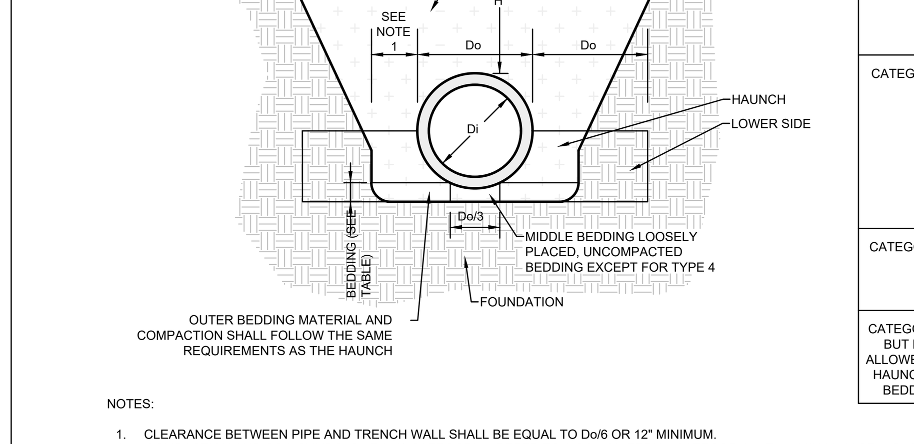


HEAD (FT)	EQUATION USED	OPENING AREA (SF)	FRAME FLOW (CFS)	FILTER AREA (SF)	FILTERED FLOW (CFS)
0.5	O	2.1	7	6	2
1.0	O	3.9	19	12	3
1.5	O	7.0	41	18	5
2.0	O	8.0	54	24	7
2.5	O	9.2	70	30	9
3.0	O	9.2	77	—	77



EQUIVALENT USCS AND AASHTO
SOIL CLASSIFICATIONS FOR SOIL DESIGNATIONS

SOIL	REPRESENTATIVE SOIL TYPES: USCS ASTM D 2487	REPRESENTATIVE SOIL TYPES: AASHTO M 145	PERCENT COMPACTION: STANDARD PROCTOR	PERCENT COMPACTION: MODIFIED PROCTOR
CATEGORY I	CLEAN, COURSE GRAINED SOILS: SW, SP, GW, GP OR ANY SOIL BEGINNING WITH ONE OF THOSE SYMBOLS WITH 12% OR LESS PASSING A #200 SIEVE	A-1, A-3	100 95 90 85	95 90 85 80
CATEGORY II	COURSE GRAINED SOILS WITH FINES: GM, GC, SM, SC OR ANY SOIL BEGINNING WITH ONE OF THOSE SYMBOLS, CONTAINING MORE THAN 12% PASSING A #200 SIEVE; SANDY OR GRAVELLY FINE-GRAINED SOILS: CL, ML, (OR CL-ML, CL/ML, ML/CL) WITH 30% OR MORE RETAINED ON A #200 SIEVE	A-2-4, A-2-5, A-2-6: OR A-4 OR A-6 SOILS WITH 30% OR MORE RETAINED ON A #200 SIEVE	100 95 90 85	95 90 85 80
CATEGORY III	FINE-GRAINED SOILS: CL, ML, (OR CL-ML, CL/ML, ML/CL) WITH LESS THAN 30% RETAINED ON A #200 SIEVE	A-2-7: OR A-4 OR A-6 WITH LESS THAN 30 % RETAINED ON A #200 SIEVE	100 95 90 85	90 85 80 75
CATEGORY IV BUT NOT ALLOWED FOR HAUNCH OR BEDDING	MH, CH, OL, OH, PT	A-5, A-7	100 95 90	90 85 80

NOTES:

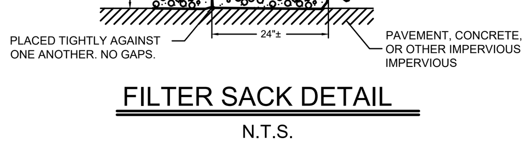
1. CLEARANCE BETWEEN PIPE AND TRENCH WALL SHALL BE EQUAL TO Do/6 OR 12" MINIMUM.
2. COMPACTION AND SOIL SYMBOLS, IE 95% CATEGORY I, REFER TO A SOIL MATERIAL CATEGORY WITH A MINIMUM STANDARD PROCTOR DENSITY.
3. WHEN THE TRENCH WIDTH SPECIFIED MUST BE EXCEEDED, THE ENGINEER SHALL BE NOTIFIED.
4. THE TRENCH WIDTH SHALL BE WIDER THAN SHOWN IF REQUIRED FOR ADEQUATE SPACE TO ATTAIN THE SPECIFIED COMPACTION IN THE HAUNCH AND BEDDING ZONES.
5. EMBANKMENT LOADING SHALL BE USED WHEN TRENCH WALLS CONSIST OF EMBANKMENT UNLESS THE GEOTECH REPORT STATES THAT THE SOIL IN THE TRENCH WALLS IS COMPACTED TO A HIGHER LEVEL THAN THE SOIL IN THE BACKFILL ZONE.
6. REQUIRED BEDDING THICKNESS IS THE THICKNESS OF THE BEDDING PRIOR TO THE PLACEMENT OF PIPE.
7. "DUMPED" MATERIAL WITHOUT ADDITIONAL COMPACTIVE EFFORT WILL NOT PROVIDE THE DESIGN HAUNCH SUPPORT REQUIRED FOR TYPE 1 AND TYPE 2 INSTALLATIONS AND IT SHOULD BE CHECKED FOR TYPE 3 INSTALLATIONS.
8. SOIL CLASSIFICATION AND COMPACTION REQUIREMENTS SHALL FOLLOW THE PROVIDED TABLES UNLESS OTHERWISE NOTED IN THE PROJECT GEOTECH REPORT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF/HERSELF WITH THE GEOTECH REPORT FOR ANY DISCREPANCIES.
9. PIPE BEDDING DETAILS ARE FOR RCP PIPES ONLY. THE INSTALLATIONS OF ANY OTHER TYPES OF PIPES (SUCH AS ULTRAFLO, HDPE, PVC, ETC.) SHALL BE INSTALLED AS PER THE MANUFACTURER'S STANDARDS AND SPECIFICATIONS.

SOIL AND MINIMUM COMPACTION REQUIREMENTS

INSTALLATION TYPE	BEDDING THICKNESS	HAUNCH AND OUTER BEDDING	LOWER SIDE
TYPE 1	Do/24 MINIMUM; NOT LESS THAN 3 IN. IF ROCK FOUNDATION, USE Do/12 MINIMUM; NOT LESS THAN 6 IN.	95% CATEGORY I	UNDISTURBED NATURAL SOIL WITH FIRMNESS EQUIVALENT TO THE FOLLOWING PLACED SOILS: 90% CATEGORY 1, 95% CATEGORY II, OR 100% CATEGORY III, OR EMBANKMENT TO THE SAME REQUIREMENTS.
TYPE 2	Do/24 MINIMUM; NOT LESS THAN 3 IN. IF ROCK FOUNDATION, USE Do/12 MINIMUM; NOT LESS THAN 6 IN.	90% CATEGORY I OR 95% CATEGORY II	UNDISTURBED NATURAL SOIL WITH FIRMNESS EQUIVALENT TO THE FOLLOWING PLACED SOILS: 85% CATEGORY 1, 90% CATEGORY II, OR 95% CATEGORY III, OR EMBANKMENT TO THE SAME REQUIREMENTS.
TYPE 3	Do/24 MINIMUM; NOT LESS THAN 3 IN. IF ROCK FOUNDATION, USE Do/12 MINIMUM; NOT LESS THAN 6 IN.	85% CATEGORY I, 90% CATEGORY II OR 95% CATEGORY III	UNDISTURBED NATURAL SOIL WITH FIRMNESS EQUIVALENT TO THE FOLLOWING PLACED SOILS: 85% CATEGORY 1, 90% CATEGORY II, OR 95% CATEGORY III, OR EMBANKMENT TO THE SAME REQUIREMENTS.
TYPE 4	NO BEDDING REQUIRED, EXCEPT IF ROCK FOUNDATION, USE Do/12 MINIMUM; NOT LESS THAN 6 IN.	NO COMPACTION REQUIRED, EXCEPT IF CATEGORY III, USE 85% CATEGORY III	NO COMPACTION REQUIRED, EXCEPT IF CATEGORY III, USE 85% CATEGORY III.

PIPE BEDDING DETAIL

N.T.S.



FILTER SACK DETAIL

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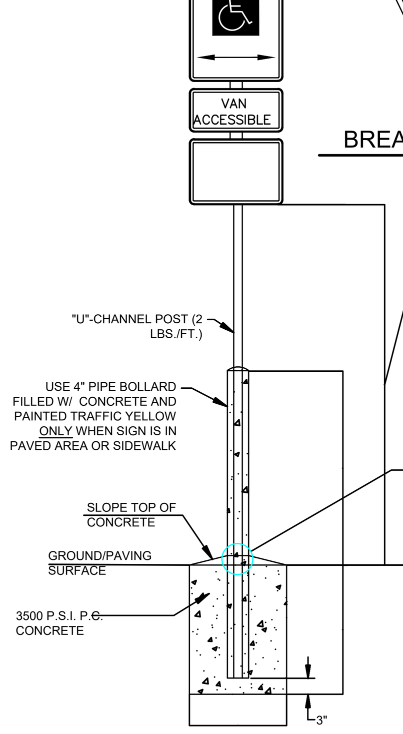
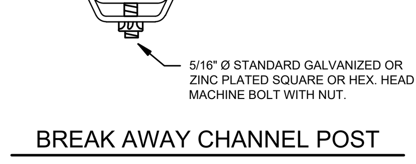
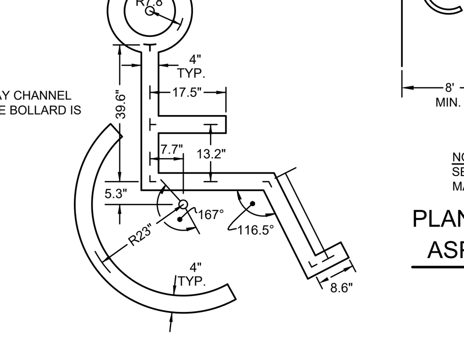
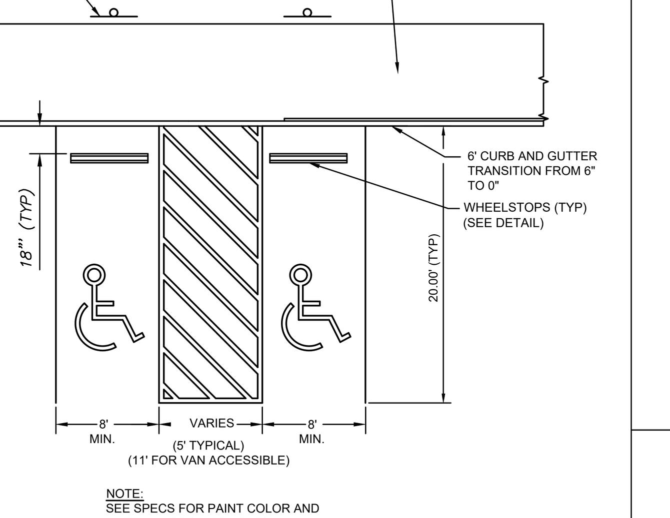




BREAK AWAY CHANNEL POST



PAINTED SYMBOL DETAIL



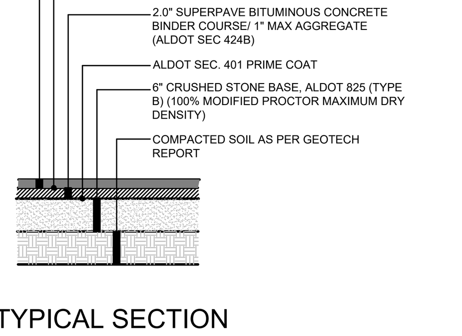
NOTE:
SEE SPECS FOR PAINT COLOR AND MATERIAL REQUIREMENTS.

PLAN VIEW W/ FLUSH ASPHALT/SIDEWALK

ALL SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES",LOCAL CODES AND AS SPECIFIED. MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

SITE SIGN BASE & ADA SIGNAGE DETAILS

N.T.S.



TYPICAL SECTION STANDARD DUTY ASPHALT PAVEMENT

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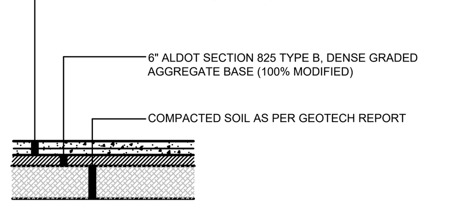

TYPICAL SECTION HEAVY DUTY CONCRETE PAVEMENT

N.T.S.

GMC
2400 5th Avenue S, Suite 200
Birmingham, AL 35233
T 205.879.4462
GMCNETWORK.COM

ISSUE	DATE
CONSTRUCTION DOCUMENTS	10/10/2022

DRAWN BY:
CHECKED BY:

UNA PARKING LOT C EXPANSION
FLORENCE, AL

GMC Project # ABHM220004

ALABAMA LICENSED No. 38073 PROFESSIONAL ENGINEER COREY ANDREW SHOOP
10-10-2022

DETAILS

C4.0
sheet 7 of 11

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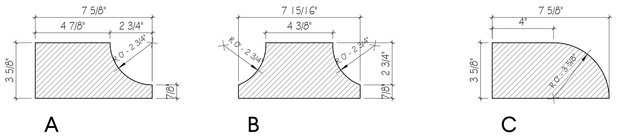
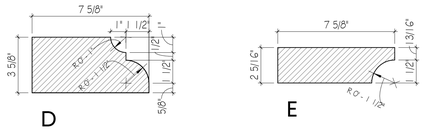
PLOTTED: Oct 10, 2022 - 4:36pm



A B C

BRICK SHAPES



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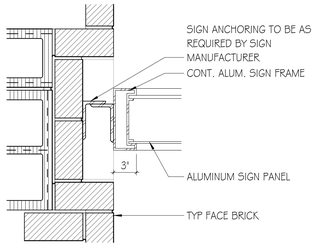
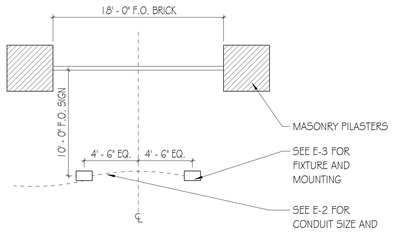
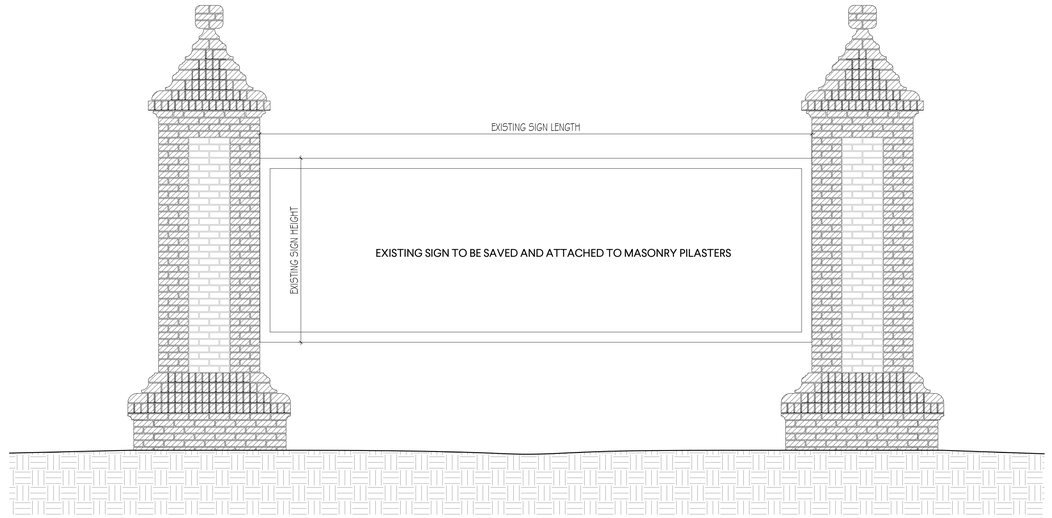
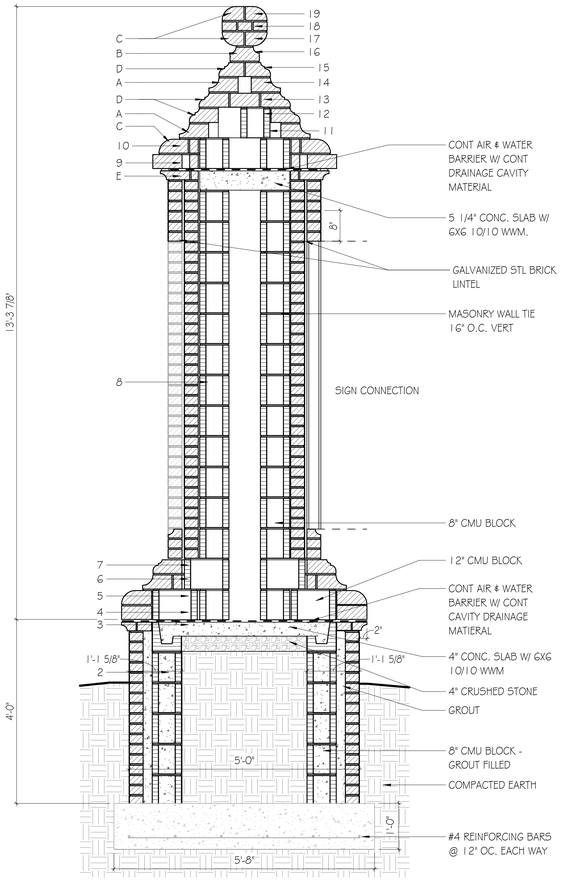


SIGN CONNECTION - DETAIL



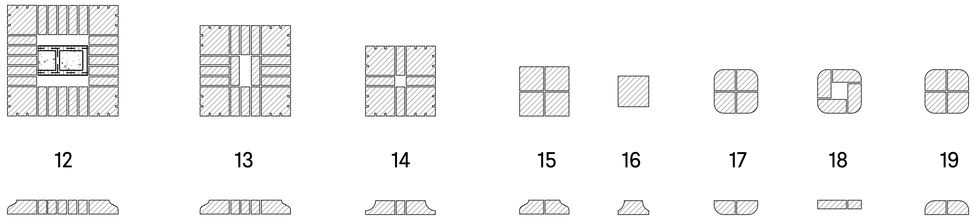
SIGN LIGHTING DIAGRAM





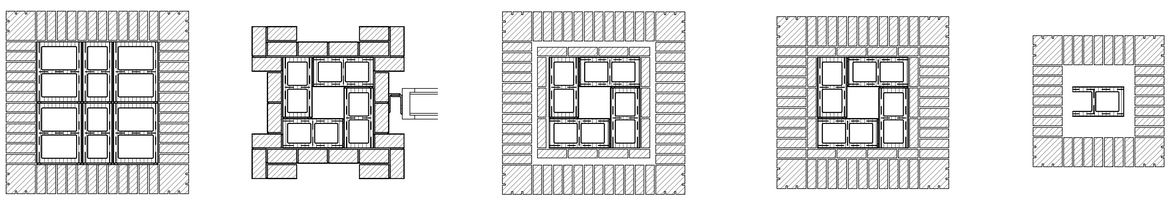
1 - SECTION

PLAN



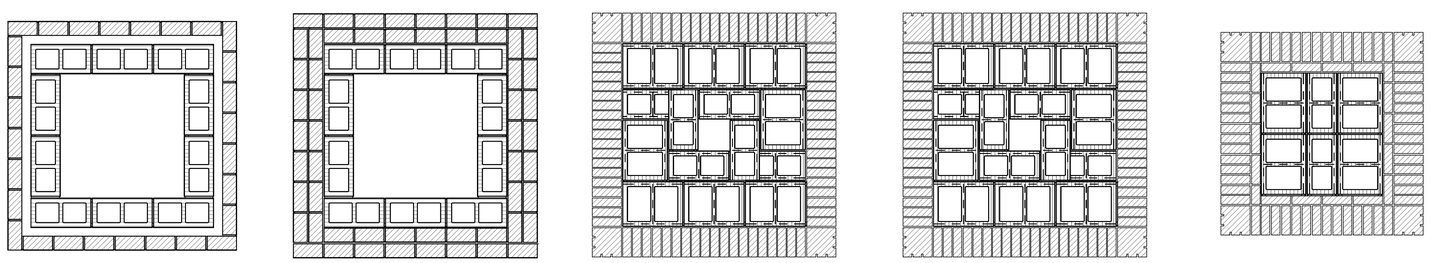
ELEVATION

PLAN



ELEVATION

PLAN



ELEVATION

G·M·C

2400 5th Avenue South, Suite 200
Birmingham, AL 35233
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GMCNETWORK.COM

ISSUE | DATE
ISSUED FOR BID | 10.07.2022

DRAWN BY: Author
CHECKED BY: Checker

UNA PARKING LOT C EXPANSION
663 N WOOD AVENUE
FLORENCE, AL 35630
GMC # ABHM220004

STATE OF ALABAMA
2407
ROBERT W. GRAY
BIRMINGHAM, ALABAMA
REGISTERED ARCHITECT

SITE SIGNAGE

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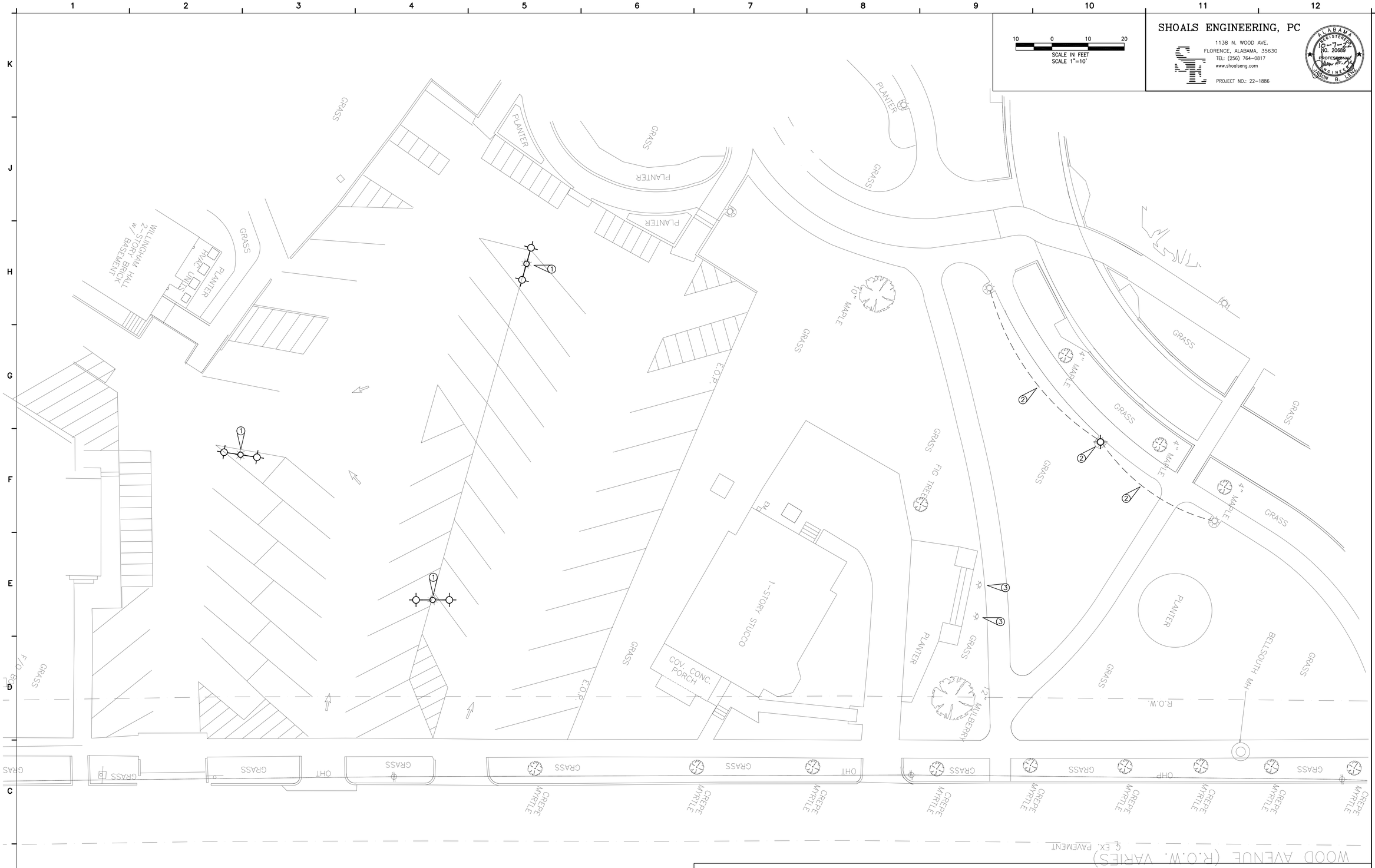

FLAG NOTES:

1. REMOVE EXISTING LIGHT POLE, CONCRETE BASE, AND ALL CONDUIT & WIRING.
2. CAREFULLY REMOVE & STORE EXISTING DIRECT-BURIED CONCRETE POLE WITH LANTERN. CAP CONDUIT ENDS & STAKE THEM OUT FOR RE-USE IN POLE RE-INSTALLATION.
3. REMOVE EXISTING GROUND-MOUNTED FLOODLIGHTS, CONCRETE BASES, CONDUIT, & WIRING.

DEMOLITION SITE PLAN

SCALE 1" = 10'-0"

DEMOLITION NOTES:

1. ALL ITEMS SHOWN ON DEMOLITION PLANS ARE TO BE REMOVED UNLESS NOTED OTHERWISE. REMOVE ALL ASSOCIATED ELECTRICAL ITEMS INCLUDING BUT NOT LIMITED TO CONDUIT, WIRE, DEVICES AND CONDUIT SUPPORTS.
2. ALL REMOVED ELECTRICAL EQUIPMENT (i.e. WIRE, CONDUIT, FIXTURES, SWITCHES, ETC.) SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE TURNED OVER TO THE OWNER AT A LOCATION DESIGNATED BY THE OWNER ON THE SITE OF THE PROJECT. EQUIPMENT NOT DESIRED BY THE OWNER SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR AT NO ADDITIONAL COST.
3. ALL EXISTING FIXTURES THAT ARE TO REMAIN OR BE REUSED SHALL BE THOROUGHLY CLEANED BY THE CONTRACTOR. CONTRACTOR SHALL ALSO REPLACE ALL BURNED OUT LAMPS.
4. ABANDONED CONDUIT SHALL BE REMOVED WHERE POSSIBLE. ABANDONED CONDUIT WHICH CANNOT BE REMOVED SHALL HAVE WIRES PULLED FROM THEM.
5. WHERE EXISTING CIRCUITS ARE REWORKED BY THE ADDITION OR REMOVAL OF CONDUCTORS, THE OLD WIRE SHALL BE REMOVED, THE CONDUIT SWABBED OUT, AND THWN/THHN WIRES REPULLED.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS AS HE SHALL BE RESPONSIBLE FOR SAME.
7. IF ANY CUTTING OR PATCHING OF WALLS IS REQUIRED TO GET NEW CIRCUITS INTO EXISTING PANELS THIS CONTRACTOR SHALL BE RESPONSIBLE FOR SAME HOWEVER WORK SHALL BE PERFORMED BY CRAFTSMEN SKILLED IN THAT TRADE.
8. BEFORE DEMOLISHING ANY CONDUIT OR WIRE, THE CONTRACTOR SHALL VERIFY WHAT IT SERVES TO ENSURE SERVICE IS NOT LOST TO ITEMS OUTSIDE OF THE AREA.

10 0 10 20
SCALE IN FEET
SCALE 1"=10'

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PROJECT NO.: 22-1886

ALABAMA REGISTERED 10-7-22 NO. 20689 PROFESSIONAL ENGINEER JASON B. LENT

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ISSUE DATE
FINAL STATE SUBMITTAL 10/07/2022

DRAWN BY: MAM
CHECKED BY: JBL

UNA PARKING LOT C EXPANSION
FLORENCE, AL

GMC Project # ABHM220004

DEMOLITION SITE PLAN

E-1
sheet of 3

24X36BDR

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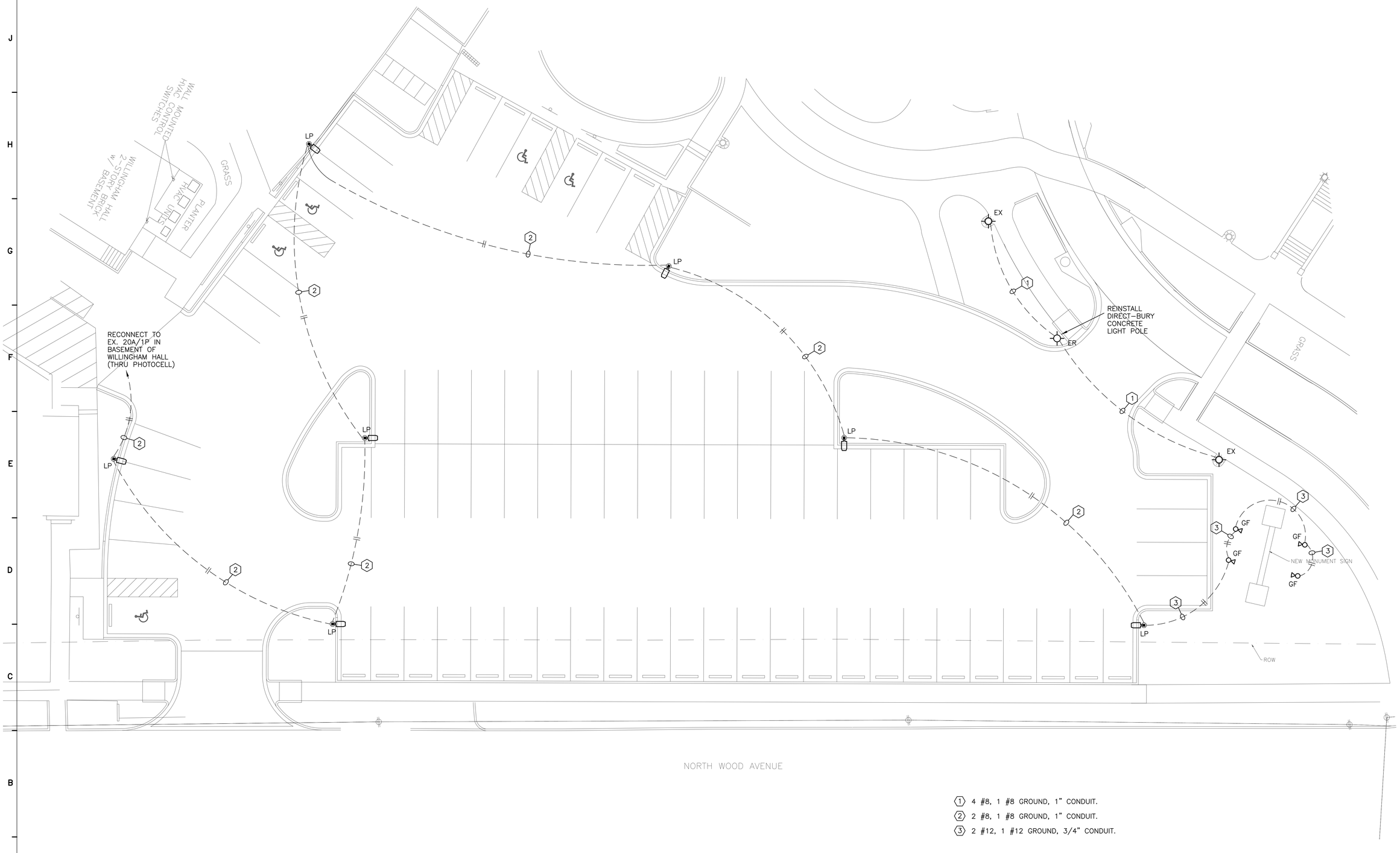

1. 4 #8, 1 #8 GROUND, 1" CONDUIT.
2. 2 #8, 1 #8 GROUND, 1" CONDUIT.
3. 2 #12, 1 #12 GROUND, 3/4" CONDUIT.

NEW WORK SITE PLAN

SCALE 1" = 10'-0"

10 0 10 20
SCALE IN FEET
SCALE 1"=10'

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NEW WORK SITE PLAN

E-2
sheet of 3

24X36BDR

LIGHTING FIXTURE SCHEDULE

SYMBOL	MANUFACTURER	CATALOG NO.	LAMPS NO.	LAMPS WATTS	LAMPS TYPE	MOUNTING	HEIGHT	REMARKS
EX	–	–	–	–	–	–	–	EXISTING LANTERN ON CONCRETE POLE
ER	–	–	–	–	–	–	–	RELOCATED LANTERN/CONCRETE POLE
GF	LITHONIA	DSXF1–LED–P1–50K–FL–MVOLT–THK–DDBXD	–	21	L.E.D.	KNUCKLE	GROUND	FLOODLIGHT, 5000K, 2965 LUMENS
LP	LITHONIA	RSX2–P2–50K–R4–MVOLT–SPA–DDBXD SSS–30–5G–DM19AS–DDBXD	–	111	L.E.D.	POLE	30'	AREA LUMINAIRE, 13W X 29L, 5000K, TYPE 4 DIST, 17,417 LUMENS 30' SQUARE STRAIGHT STEEL POLE, 0.179 THICK, 5" SQUARE

FIXTURE SCHEDULE NOTES:

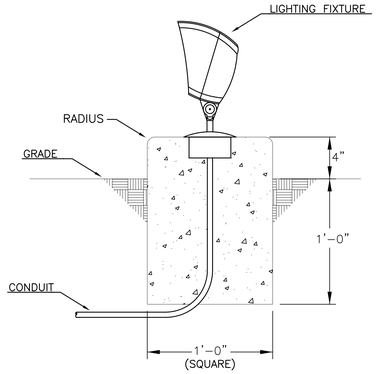
1. EQUAL, IDENTICAL FIXTURES WILL BE CONSIDERED. LUMEN LEVELS OF SUBSTITUTED FIXTURES SHALL BE BETWEEN 95% & 110% OF SPECIFIED FIXTURES. WATTAGE OF SUBSTITUTED FIXTURES SHALL NOT EXCEED 10% OVER SPECIFIED FIXTURES. LIGHT DISTRIBUTION PATTERN SHALL MATCH WHAT IS SPECIFIED.

   "EQUAL" IS INTENDED TO MEAN THAT A PROPOSED SUBSTITUTE FIXTURE PERFORMS IN THE SAME MANNER AND IS CONSTRUCTED AS WELL OR BETTER THAN THE SPECIFIED FIXTURE.

   "IDENTICAL" IS INTENDED TO MEAN THAT THE SPECIFIED FIXTURE AND THE PROPOSED FIXTURE HAVE AN APPEARANCE THAT WOULD BE CONSIDERED MATCHING BY A DISCERNING ARCHITECT.

GENERAL ELECTRICAL NOTES:

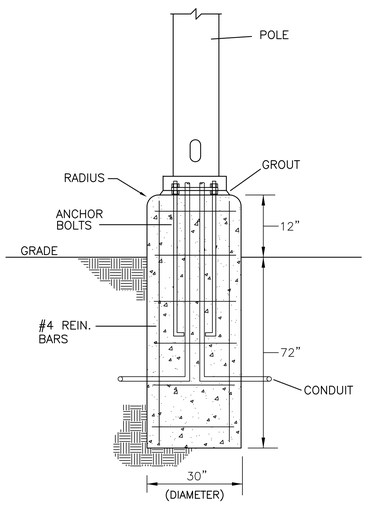
1. BRANCH CIRCUITS AND HOMERUNS SHALL BE #12 WIRE AND 3/4" CONDUIT MINIMUM. EVERY CONDUIT SHALL HAVE A GROUND WIRE (#12 MINIMUM).
2. ALL UNDERGROUND CONDUIT RUNS ENTERING THE BUILDING SHALL BE SEALED TO PREVENT THE ENTRANCE OF MOISTURE AND GASES.
3. ALL CONDUIT CONCEALED, UNLESS SPECIFICALLY SHOWN EXPOSED.



FIXTURE "GF" FLOODLIGHT DETAIL

NO SCALE

NOTE: PROVIDE A GROUNDING LUG IN EVERY POLE AND BOND INTO EQUIPMENT BONDING SYSTEM. MAKE LUG ACCESSIBLE THRU THE HANDHOLE.



POLE AND BASE DETAIL

NOT TO SCALE

Minimum Cover Requirements, 0 to 600 Volts, Nominal, Burial in Inches

Location of Wiring Method or Circuit	Type of Wiring Method or Circuit: Column 1 — Direct Burial Cables or Conductors	Column 2 — Rigid Metal Conduit or Intermediate Metal Conduit	Column 3 — Nonmetallic Raceways Listed for Direct Burial Without Concrete Encasement or Other Approved Raceways	Column 4 — Residential Branch Circuits Rated 120 Volts or Less With GFCI Protection and Maximum Protection of 20 Amperes	Column 5 — Circuits for Control of Irrigation and Landscape Lighting Limited to Not More Than 30 Volts and Installed with Type UF or in Other Identified Cable or Raceway
	In Inches	In Inches	In Inches	In Inches	In Inches
All Locations not Specified Below	24	6	18	12	6
In Trench Below 2" Thick Concrete or Equivalent	18	6	12	6	6
Under Building	0 (In Raceway Only)	0	0	0 (In Raceway Only)	0 (In Raceway Only)
Under Minimum of 4" Thick Concrete Exterior Slab With No Vehicular Traffic and the Slab Extending Not Less Than 6" Beyond the Underground Installation	18	4	4	6 (Direct Burial) 4 (In Raceway)	6
Under Streets, Highways, Roads, Alleys, Driveways, and Parking Lots	24	24	24	24	24
One–and Two–Family Dwelling Driveways and Outdoor Parking Areas, and Used Only for Dwelling–Related Purposes	18	18	18	12	18
In or Under Airport Runways, Including Adjacent Areas Where Trespassing is Prohibited	18	18	18	18	18

Notes:

1. Cover is defined as the shortest distance in inches measured between a point on the top surface of any direct–buried conductor, cable, conduit, or other raceway and the top surface of finished grade, concrete, or similar cover.
2. Raceways approved for burial only where concrete encased shall require concrete envelope not less than 2" thick.
3. Lesser depths shall be permitted where cables and conductors rise for termination's or splices or where access is otherwise required.
4. Where one of the wiring method types listed in Columns 1–3 is used for one of the circuit types in Column 4 and 5, the shallower depth of burial shall be permitted.
5. Where solid rock prevents compliance with the cover depths specified in this table, the wiring shall be installed in metal or nonmetallic raceway permitted for direct burial. The raceways shall be covered by a minimum of 2" of concrete extending down to rock.

NATIONAL ELECTRICAL CODE 2017 EDITION

ELECTRICAL SPECIFICATIONS

A. All Electrical work shall comply with National Electric Code and all local regulations.

B. Conduit for branch circuit inside building and above the floor may be THIN Wall Metal (EMT).

C. Conduit exposed to weather shall be rigid metal or weatherproof flexible metallic conduit.

D. Conduit installed underground or in the slab shall be schedule 40 PVC.

E. Wire shall be copper type THHN/THWN.

F. All grounding shall, as a minimum, comply with the National Electrical Code. Grounding in addition to that required by the NEC shall be completed as shown on the drawings.

G. Scope, Work Included:

   a. Install complete system of electrical wiring to each lighting fixture.

   b. Install all lighting fixtures and other electrical equipment covered by this section of specifications and electrical drawings.

   c. See separate book of specifications for additional and more detailed requirements.

H. Fees and Permits

This Contractor shall pay additional cost that may be incurred by other trades due to the installation of equipment or material, covered by this section of specifications and electrical plans, which differ from that specified.

This Contractor shall secure all licenses and permits and pay all fees required for completion of work under this section of the specifications.

ELECTRICAL LEGEND

	LIGHT POLE WITH DUAL HEADS
	CONCRETE POLE WITH LANTERN
	LIGHT POLE
	GROUND MOUNTED FLOOD LIGHT
	BRANCH CIRCUIT RUN UNDERGROUND. PROVIDE GROUND WIRE IN EACH CONDUIT. NUMBER OF WIRES AS SHOWN (THREE SHOWN HERE PLUS GROUND [IMPLIED]). CONDUIT SHALL BE 3/4" MINIMUM. WIRE SHALL BE #12 COPPER MINIMUM. WIRE FILL PER N.E.C.
P2A–61,63	HOMERUN TO PANELBOARD.

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FIXTURE SCHEDULE + NOTES

E-3
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