



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

Division of Water Resources
William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243
1-888-891-8332 (TDEC)



Notice of Intent (NOI) for General NPDES Permit for Stormwater Discharges from Construction Activities (TNR100000)

Site or Project Name: Redstone Federal Credit Union
NPDES Tracking Number: TNR 240191
Street Address or Location: Lot 7 Medical Center Parkway & Maplegrove Dr.
Construction Start Date: January 2018
Estimated End Date: January 2019
Site Description: Utilities, site grading, building construction
Latitude (dd.dddd): 35.816537
Longitude (-dd.dddd): -86.398322
County(ies): Rutherford MS4 Jurisdiction (if applicable): Murfreesboro
Acres Disturbed: 1.96
Total Acres: 1.96

Check the appropriate box(s) if there are streams and/or wetlands on or adjacent to the construction site: Streams [] Wetlands []
If wetlands are located on-site and may be impacted, attach wetlands delineation report.
If an Aquatic Resource Alteration Permit (ARAP) has been obtained for this site, what is the permit number?

Receiving waters: West Fork Stones River (Fully Supporting)
Attach the SWPPP with the NOI: SWPPP Attached Attach a site location map: Map Attached

Site Owner/Developer (Primary Permittee): (Provide person, company, or entity that has operational or design control over construction plans and specifications): Redstone Federal Credit Union

For corporate entities only, provide correct Tennessee Secretary of State (SOS) Control Number: Charter # - 7544
Site Owner or Developer Contact Name: (individual responsible for site) Jeff Cooper Title or Position: (the party who signs the certification below) Sr. Assistant Vice President

Mailing Address: 220 Wynn Dr. City: Huntsville State: Alabama Zip: 35893
Phone: (256) 722-3797 Fax: (256) 722-4883 E-mail: jcooper@redfcu.org

Optional Contact: Tony Mitchell Title or Position: Facilities Manager
Mailing Address: 220 Wynn Dr. City: Huntsville State: AL Zip: 35893
Phone: (256) 722-3722 Fax: (256) 722-4883 E-mail: tmitchell@redfcu.org

Owner/Developer(s) Certification: (must be signed by president, vice-president or equivalent, or ranking elected official) (Primary Permittee)
I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Owner/Developer Name (print/type): Jeff Cooper Signature: [Signature] Date: 3-1-2018
Owner/Developer Name (print/type): Tony Mitchell Signature: [Signature] Date: 3-1-2018

Contractor Certification: (must be signed by president, vice-president or equivalent, or ranking elected official) (Secondary Permittee)
I certify under penalty of law that I have reviewed this document, any attachments, and the SWPPP referenced above. Based on my inquiry of the construction site owner/developer identified above and/or my inquiry of the person directly responsible for assembling this NOI and SWPPP, I believe the information submitted is accurate. I am aware that this NOI, if approved, makes the above-described construction activity subject to NPDES permit number TNR100000, and that certain of my activities on-site are thereby regulated. I am aware that there are significant penalties, including the possibility of fine and imprisonment for knowing violations, and for failure to comply with these permit requirements. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Contractor name, address, and SOS control number (if applicable): [Signature] Date: 2/27/18

OFFICIAL STATE USE ONLY
Received Date: 3-1-18 Reviewer: [] Field Office: 04 Permit Tracking Number: TNR 240191.02 Exceptional TN Water:
Fee(s): 100. T & E Water Quality/Flora/Fauna: [] SOS Corporate Status: [] Waters with Unavailable Parameters: [] Notice of Coverage Date: 3-23-18

Redstone Federal Credit Union

TENNESSEE DEPT OF ENVIRONMENT

30157

03/02/2018

Invoice Date	Reference	Invoice Amount	Discount	Payment
02/28/2018	022818/100.00	100.00	0.00	100.00
TOTAL				100.00

NOTICE TO CUSTOMER

The purchase of an indemnity bond may be required before the check will be replaced or refunded in the event it is lost, misplaced or stolen.

Redstone Federal Credit Union

TENNESSEE DEPT OF ENVIRONMENT

30157

03/02/2018

Invoice Date	Reference	Invoice Amount	Discount	Payment
02/28/2018	022818/100.00	100.00	0.00	100.00
TOTAL				100.00

NOTICE TO CUSTOMER

The purchase of an indemnity bond may be required before the check will be replaced or refunded in the event it is lost, misplaced or stolen.

TN DEPT. OF ENV. & CONSERVATION

MAR 07 2018

DIVISION OF WATER RESOURCES

THIS CHECK IS VOID WITHOUT A BLUE & BURGUNDY BACKGROUND AND AN ARTIFICIAL WATERMARK ON THE BACK - HOLD AT AN ANGLE TO VIEW

REDSTONE
FEDERAL CREDIT UNION

Accounts Payable
220 Wynn Drive
Huntsville, AL 35893

PAY TO THE ORDER OF TENNESSEE DEPT OF ENVIRONMENT

One Hundred and 00/100*****

TENNESSEE DEPT OF ENVIRONMENT
WILLIAM R SNODGRASS TENN TOWER
312 ROSA L PARKS AVE 11TH FL
NASHVILLE, TN 37243

61-7583/2622

30157

03/02/2018

\$***100.00

Void After 6 Months

Joseph H. Newberry
AUTHORIZED SIGNATURE

SIGNATURE HAS A COLORED BACKGROUND * BORDER CONTAINS MICROPRINTING

Notes:

- 1) Engineering Department Point of Contact is Cey Chase-Aguzzi, 615-893-6441;
CChase-Aguzzi@MurfreesboroTN.gov
- 2) Planning Department Point of Contact is Margaret Ann Green, 615-893-6441;
MGreen@MurfreesboroTN.gov
- 3) Contractor To Coordinate With The Traffic Engineer In The City Transportation Department
Prior To Commencement Of Work In The Area To Avoid Damage To Traffic Signal
Devices. Contact Ram Balachandran @ 615-893-6441

Redstone

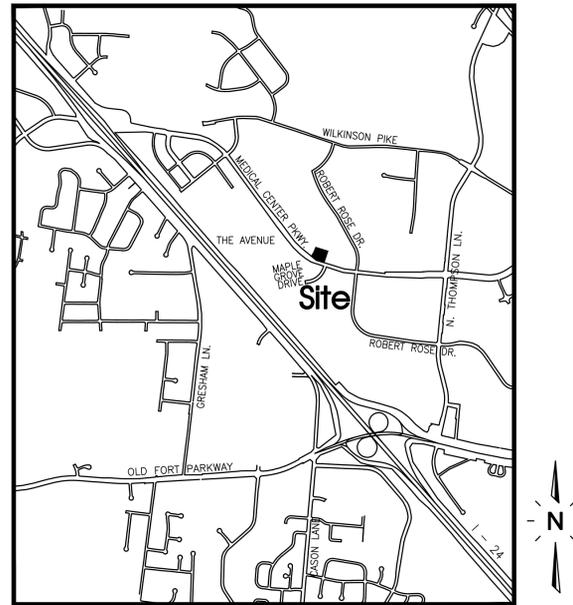
Federal Credit Union

Murfreesboro, Tennessee

Final Design Review Set

Site Plan & Construction Drawings

<u>Drawing Index</u>	
Sheet No.	Title
C0.00	Cover Sheet
C1.00	General Notes
C2.00	Existing Conditions/Initial EPSC
C3.00	Site Plan
C3.01	Utility Plan
C3.02	Road Improvement Plan
C4.00	Grading, Drainage & Final EPSC Plan
C5.00	Details
C5.01	Details



Site Location Map
Not To Scale

Owner/Developer:
Redstone Federal Credit Union
220 Wynn Dr.
Huntsville, AL 35893

Deed Reference:
Tax Map 92, Parcel 8.12
R.Bk. 1534, Pg. 1581
P.Bk. 39, Pg. 68, Lot 7

Yard Requirements:
Front: 15' (Along Local Streets)
50' (Along Medical Center Parkway)
Side: 10'
Rear: 20'

Intended Use:
Bank Branch (With Drive-Thru), Office Building

Land Use Data:
Zoned: MU
3-Story Building
Building Ht.: 48'-0"
Net Floor Area: 18,560 Sq.Ft.
1 Lot on: 1.81± Acres

Parking Requirement:
 $\frac{1}{300} \times 18,560 \text{ Sq.Ft.} = 62 \text{ Spaces Required}$
Provided: 61 Regular + 3 H.C. = 64 Total Spaces Provided

Flood Map No.:
This site lies within Zone X, not in the
100 Year Floodplain, per Community Panel
47149C0260H dated January 5, 2007.

SEC, Inc. SITE ENGINEERING CONSULTANTS
ENGINEERING • SURVEYING • LAND PLANNING

850 MIDDLE TENNESSEE BOULEVARD MURFREESBORO, TENNESSEE 37129
PHONE: (615) 890-7901 E-MAIL: MTAYLOR@SEC-CIVIL.COM FAX: (615) 895-2567
NO PORTION OF THIS DRAWING MAY BE REPRODUCED WITHOUT THE EXPRESSED WRITTEN CONSENT OF S.E.C. INC.



By: _____ Date: _____
Matthew A. Taylor, P.E. TN. Reg. #112515

Watershed: West Fork Stones River (Fully Supporting)
Disturbed Area: 1.96± Ac.
Impervious Area: 1.25± Ac.

Sheet C0.00
Redstone FCU
S.E.C. Project #13260
Submitted: 2-1-18
Revised: 1-22-18, 2-20-18

Site Clearing & Demolition Notes:

- Before starting demolition operations, refer to Demolition & Initial EPSC Plan.
- Demolition includes the following within the property lines:
 - Transfer materials control to new locations outside the disturbed area prior to commencing demolition operations (when applicable)
 - Provide temporary barricades and other forms of protection as required to protect owner's personnel property and general public from injury due to demolition work.
 - Demolition and removal of site improvements
 - Disconnecting, capping or sealing, and abandoning/removing site utilities in place (whichever is applicable)
- Promptly remove waste materials, unsuitable and excess topsoil and other clearing debris from Owner's property and dispose of off site.
- Remove and legally dispose of items except those indicated to be reinstalled, salvaged, or to remain.
- Existing foundations and utilities may be encountered across the site. If encountered, these items may require removal as indicated on the drawings. Resulting excavations should be backfilled with properly compacted select fill.
- Remove includes digging out stumps and roots. Remove all stumps, roots over 4-inches in diameter and matted roots within the limits of grubbing to depths as follows:
 - Footings: 18 inches
 - Walks: 12 inches
 - Roads: 18 inches
 - Parking Areas: 12 inches
 - Low Areas: 18 inches
 - Fills: 12 inches
- Remove, reinstall, and relocate: items indicated, clean, service, and otherwise prepare them for reuse; store and protect against damage reinstalled items in locations indicated.
- Provide protection necessary to prevent damage to existing improvements indicated to remain in place. Protect benchmarks, existing structures, roads, sidewalks, paving and curbs against damage from vehicular or foot traffic.
 - Protect improvements on adjoining properties and on the Owner's property.
 - Restore damaged improvements to their original condition, as acceptable to parties having jurisdiction.
- Contractor shall schedule demolition activities with the construction project manager.
- Comply with applicable requirements of federal, state and local laws, regulations and codes of the authorities having jurisdiction for the disposal of trees, shrubs and other cleared material.
- Conduct site clearing operations to ensure minimum interference with roads, streets, walks and other adjacent occupied or used facilities. Do NOT close or obstruct streets, walks or other occupied or used facilities without permission from outduty having jurisdiction.
- Obtain approved borrow soil materials off-site when sufficient satisfactory soil materials are not available on-site.
- Maintain existing utilities indicated to remain in service and protect them against damage throughout construction operations.
 - Do not interrupt exist utilities serving occupied or operating facilities, except when authorized in writing by engineer and authorities having jurisdiction. Provide temporary services during interruptions to existing utilities, as acceptable to owner and to governing authorities.
 - Contractor shall coordinate with appropriate utility owner when disconnecting, removing, or relocating existing utility services.
- Conduct demolition operations to prevent injury to people and damage to adjacent buildings and facilities to remain. Ensure safe passage of people around demolition area.
 - Erect temporary protection, barricades as per local governing authorities.
 - Protect existing site improvements and appurtenances to remain.
- Protect existing trees and other vegetation indicated to remain in place, avoiding unnecessary cutting, breaking or skimming of roots, skimming and bruising of bark, smothering of trees by stockpiling construction materials or excavated materials within drip line, excess foot or vehicular traffic or parking of vehicles within drip line. Provide temporary guards to protect trees in place.
 - Protect tree root systems from damage due to deleterious materials caused by run-off or spillage during mixing, use or discarding of construction materials or drainage from stored materials. Protect root systems from compaction, flooding, erosion or excessive wetting.
 - Engage a qualified tree surgeon to remove branches from trees, if required, to clear for new construction where cutting is required, tree surgeon shall cut branches and roots with sharp pruning instruments; do not break or chop.
- Explosives-use of explosives will not be permitted.
- Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- Clean adjacent buildings and improvement of dust, dirt, and debris caused by demolition operations. Return adjacent areas to condition existing before start of demolition.
- Damages: Promptly repair damages to adjacent facilities caused by demolition operations at the contractors cost.
- Remove existing above-grade and below-grade improvements necessary to permit construction and other work as indicated.
- General: Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on-site.
- Do NOT Burn or bury materials on site.
- Contractor to sawcut existing pavement to remain prior to curb, gutter, pavement, etc. removal.
- In Tennessee it is a requirement per "the Underground Utility Damage Prevention Act" that anyone who engages in excavation must notify all known utility owners no less than 14 working days, prior to their intended excavation. A list of these utility owners may be obtained from the county register of deeds. Those utility owners who participate in the Tennessee One Call System can be notified toll free at 1-800-351-1111.
- Utilities shown are based on visual observations and utility markings. Contractor shall call TN One Call and confirm locations prior to starting work.

General Plan Notes:

- Prior to starting construction the contractor shall be responsible for making sure that all required permits and approvals have been obtained. No construction or fabrication shall begin until the contractor has received and thoroughly reviewed all plans and other documents approved by all of the permitting authorities.
- All work shall be performed in accordance with these plans, specifications, and the requirements and standards of the local governing authority. The soils report and recommendations set forth therein are a part of the required construction documents and take precedence unless specifically noted otherwise on the plans. The contractor shall notify the construction/project manager of any discrepancy between soils report and plans, etc.
- Upon receipt of point coordinate data, the contractor shall run an independent vertical control traverse to check benchmarks and a horizontal control traverse through given points to confirm geometric data and submit to the engineer prior to any construction.
- The locations of underground facilities shown on the plan are based on field surveys and city records. It shall be the contractor's full responsibility to contact the various utility companies to locate their facilities prior to the starting construction. No additional compensation shall be paid to the contractor for work having to be redone due to information shown incorrectly on these plans if such notification has not been given.
- All work within the rights of way shall be in accordance with the governing jurisdiction and specifications.
- Contractor shall coordinate any maintenance of traffic with the owner's representative and the local jurisdiction prior to construction.
- Contractor shall at all times ensure that SWPP measures protecting existing drainage facilities be in place prior to the commencement of any phase of the site construction or land alteration.
- Upon completion of project, contractor shall clean the paved areas prior to removal of temporary sediment controls, as directed by the city and/or construction/project manager. If power washing is used, no sediment laden water shall be washed into the storm system. All sediment laden material on pavement or within the storm system shall be collected and removed from the site at contractor's expense.
- Rock may be present requiring some rock excavation for utility installation. No extra compensation shall be given for rock excavation.
- These project construction documents shall not constitute a contractual relationship between the engineer and the contractor.
- The engineer shall not be responsible for construction of safety means, methods, techniques, sequence's, or procedures utilized by the contractor or subcontractors.
- Contractor to coordinate with the City of Murfreesboro Traffic Engineering Department prior to commencement of any work in the Public Right-of-Way in this area to avoid damage to traffic signal devices. Contact Ram Balachandran, City Traffic Engineer, at 615-893-6441.
- A separate R.O.W. Excavation Permit issued from the Murfreesboro Street Department shall be required for any excavation or construction in the public R.O.W.

Site Plan Notes:

- Contractor shall immediately notify the engineer of any discrepancies found between these plans, the architectural plans, and/or field conditions prior to construction.
- Apparent errors, discrepancies, or omissions on the drawing shall be brought to the attention of the owner prior to bid submission. The contractor may not use apparent errors, discrepancies, or omissions present on the drawings presented after bidding for additional changes after bids have been submitted. The architect shall be permitted to make corrections and interpretations as may be deemed necessary for the fulfillment of the intent of the contract documents.
- The contractor shall make all improvements using the geometric data provided in the drawings. It is the sole responsibility of the contractor to completely stake and check all improvements to ensure adequate positioning, both horizontal and vertical, prior to the installation of any improvements. No digital file will be provided.
- The notes and plans shown call attention to certain required features of the construction but do not claim to cover all details of design and construction. The contractor shall furnish and install the work complete and ready for operation.
- After completion of construction, the contractor shall perform site cleanup to remove all trash, debris, excess materials, equipment, and other deleterious materials associated with construction. The contractor is expressly responsible for ensuring the site is clean and in operable condition at the time of final acceptance.
- The contractor is responsible for the protection and replacement of all property pins on this site.
- These drawings are intended for use on this site only and as an integrated set for this specific project. These drawings may not be used in whole or in part on any other project under the professional engineer's seal. The owner shall hold harmless and indemnify the architect and engineer from and against any and all claims of any nature whatsoever arising from such use.
- The contractor shall make all improvements using the geometric data provided in the drawings. It is the sole responsibility of the contractor to completely stake and check all improvements to ensure adequate positioning, both horizontal and vertical, prior to the installation of any improvements. No digital file will be provided.
- Coordinates referenced are for construction staking purposes and are site assigned. They should be considered local coordinates for this project only.
- All parking space striping and markings on site shall be 4" wide white painted stripes. Other markings shall be as shown.
- All dimensions and radii are given to face of curb unless otherwise noted.
- Asphalt paving: do not apply prime and tack coats when temperature is below 50° F, or when base is wet. Apply asphalt paving only when temperature is above 40° F and when base is dry.
- Materials:
 - Subgrade: Cohesive subgrade shall be compacted to 96% compaction. Cohesion less subgrade shall be compacted to 100% compaction.
 - Subbase: Unless otherwise noted on these plans, base shall consist of water bonded limestone, crushed rock or DCA.
 - Asphalt: Bituminous concrete hot plant mix binder course and asphalt topping plant mix shall be applied over base, minimum temperature time of placement shall be 225° F.
- Cast in place concrete: All concrete work shall conform to all requirements of American Concrete Institute ACI 301 and applicable sections of ASTM C-94 (latest ed.) for ready mixed concrete.
- All concrete shall be in-transit mixed concrete, 5% air-entrained and shall attain a minimum compression strength of 4,000 p.s.i. in twenty-eight (28) days.
- Slump: Maximum allowable slump will be five (5) inches.
- Concrete Materials:
 - Portland cement: Gray portland cement, ASTM C-150 (latest ed.) type 1. All concrete shall contain not less than five bags of cement per cubic yard.
 - Aggregates: ASTM C-33 (latest ed.)
 - Sand: Hard, durable, clean, sharp, natural sand free from clay, loam, dust or organic matter.
 - Water: Clean, potable, free from oil, acids, alkali, organic matter and other deleterious substances.
 - Admixture: Air type to meet ASTM C-260 (latest ed.)
- Related Materials:
 - Curing Compound: "Horncrete 300" as manufactured by A.C. Horn Company, (800) 654-0402. This product is not to be used on the interior floor slab.
- Reinforcing materials shall be uncoated and free from excessive rust, mill scale, oil, grease and other deleterious matter. No. 4 Bars 16" O.C. both ways. Joints to be sowed at 15" foot centers for transverse and longitudinal joints.
- All above grade exterior concrete surfaces shall be cured with curing compound sprayed on in strict compliance with manufacturer's directions.
- Weather Requirements:
 - Hot Weather Placing: No concrete shall be placed when the air temperature is greater than 90° F unless the following special procedures have been included in the contract and reviewed by the engineer. Temperature of the concrete when placed shall not be greater than 90° F. Procedures for applied curing, retarding and protecting in-place concrete during hot weather shall be in accordance with ACI 305. Provide special procedures required to control concrete temperature and to protect surfaces from cracking during curing. Mixing water may be chilled or chopped ice may be used to control temperature provided water equivalent of ice is calculated to total amount of mixing water, use of liquid nitrogen to cool concrete is the contractor's option.
 - Cold Weather Placing: Do not mix or place when atmospheric temperature will fall below 40° F, or when conditions indicate temperature will fall below 40° F within 72 hours. Concrete deposited shall have temperature not less than 60° F. Reinforcement, forms and ground which concrete will contact shall be completely dry. Keep concrete and form work at a temperature not less than 50° F for not less than 72 hours after pouring. Comply with requirements of ACI 305 (latest ed.) for cold weather protection.
- Concrete tests shall be authorized by the owner on as needed basis.
- All exterior curb shall have expansion joints at 100'-0" O.C., and construction joints at 10'-0" O.C. (unless otherwise specified on the detail sheets).
- All concrete shall have a medium transverse finish.
- Subgrade shall be free of extraneous materials. Proof-roll soil subgrade with heavy, pneumatic tired equipment immediately prior to placing stone base. Any soft or unstable zones detected therefor shall be undercut to firm soil and backfilled with engineered earth fill compacted as specified. The subgrade for all pavements shall be uniformly stable before any stone base is installed. No base materials shall be placed if the subgrade indicates pumping.
- Surface preparation, spreading and laying, compacting and rolling operations shall conform with asphalt institute recommended specifications.
- Inspect area to be paved and ensure that all subgrade conditions are sufficiently carried out to ensure a good paving job. A finished surface shall not vary more than 1/8" in 10 feet when tested with a straight edge applied parallel to and at right angle to centerline of asphalt surface. Humps or depressions which exceed specified tolerances or which retain water shall be immediately corrected by removing the defective work and replacing it with new material at the contractor's expense.

Grading And Drainage Plan Notes:

- The site work contractor shall coordinate the installation of all underground utilities with his work. All underground utilities (water, sanitary sewer, storm sewer, electrical conduit, irrigation sleeves, and any other miscellaneous underground utilities, devices, or structures), shall be in-place prior to the placement of base course material.
- The contractor shall cut existing pavement as necessary to assure a smooth fit and continuous grade.
- The contractor shall verify horizontal and vertical location of all existing storm sewer structures, pipes and all utilities prior to construction.
- Clearing and grubbing limits shall include all areas disturbed by grading operation.
- The soil materials shown hereon may be disturbed by cutting or filling operations performed during or before development. Therefore, the builder of any proposed structure shall investigate the current conditions and consult with a geotechnical expert or other qualified person as he deems appropriate to assure himself that the design of the proposed foundation is adequate.
- No portion of this site lies within a 100 year flood hazard area, as defined by F.E.M.A. Community Plan No. 47149C0265H dated January 5, 2007.
- Before starting grading operations, see sheet 3 Existing Conditions/Initial EPSC plan notes and details.
- Before starting grading operations, see landscape plan and Geotechnical Engineering report for treatment of existing grade.
- Prior to site construction activity, the contractor shall install all SWPP measures to protect existing drainage facilities. Contractor shall prevent siltation from leaving the site at all times.
- Strip building and pavement areas of all organic topsoils. Stockpile suitable topsoils for respreading onto landscape areas. All excess excavated materials shall be removed from the site at the contractor's expense. See geotechnical-report-for-stripping-and-topsoil-requirements.
- Site grading shall be performed in accordance with these plans and specifications and the recommendations set forth in the geotechnical engineering report. The contractor shall be responsible for removing all soft, yielding or unsuitable materials and replacing with suitable materials as specified by the Geotechnical Engineer.
- Contractor shall submit a compaction report prepared by a Licensed Geotechnical Engineer, verifying that all filled areas and subgrade areas within the building pad area and areas to be paved have been compacted in accordance with these plans and specifications and the recommendations set forth in the Geotechnical Engineering report. Notify project engineer if any unsuitable soils are found.
- Compaction testing is mandatory for parking lot, building slab and foundations sub-grade.
- Fill under paved areas and slabs on grade shall be compacted per specifications and geotechnical report. Deposit fill material in horizontal layers as recommended by Geotechnical Engineer and compact each layer with a mechanical tamper. Base course pavement shall be compacted to 100% standard proctor.
- It is the earthwork contractor's responsibility to maintain the site soils and engineered fills with a workable moisture content range to obtain the required in-place density. Scarifying and drying operation should be included in the contractor's price and should not be considered an extra for the contract. The contractor shall review the Geotechnical Engineering report and be aware of all moisture concerns and soil remediation requirements.
- Following grading of subsoil to subgrade elevations the contractor shall place topsoil to a depth as specified on L.A. Plans in all disturbed areas which are not to be paved. Smoothly finish grade to meet surrounding lawn areas and ensure positive drainage. Stockpiled topsoil shall be screened prior to respreading. Topsoils shall be free of subsoil, debris, brush and stones larger than 1" in any dimension. Rock hounding in place will not be permitted. All excess topsoil shall be legally disposed of off site.
- After fine grading topsoil, contractor shall stabilize per L.A. plans, mulch, fertilize and water until a healthy stand of grass is obtained. The restoration shall closely follow construction.
- Elevations given are at bottom face of curb and/or finished pavement grade unless otherwise specified on grading plan. All pavement shall be laid on a straight, even, and uniform grade with a minimum of 1% slope toward the collection points unless otherwise specified on the grading plan. DO NOT allow negative grades or ponding of water.
- Contractor shall provide butt end joint to meet existing pavement in elevation at drive returns and ensure positive drainage.

General Utility Notes:

- Contractor shall contact all utility companies immediately after bid is awarded and ensure the utility companies have the essentials required for complete service installation. Contractor shall notify construction manager and engineer of any time frames established by utility companies which will not meet opening date.
- Existing utility lines shown are approximate locations only. Contractor shall verify the size, location, invert elevation, and condition of existing utilities which are intended to be utilized as a connection point for all proposed utilities (see sheet), prior to any construction. Contractor to ensure existing utilities are in good condition and free flowing (if applicable). If elevations, size, or location differ from what is shown on sheet, contractor shall notify engineer immediately.
- The contractor will provide all necessary protective measures to safeguard existing utilities from damage during construction of this project. In the event that special equipment is required to work over and around the utilities, the contractor will be required to furnish such equipment. The cost of protecting utilities from damage and furnishing special equipment will be included in the price bid for other items of construction.
- The contractor shall notify each individual utility owner of his plan of operation in the area of the utilities, prior to commencing work, the contractor shall contact the utility owners and request them to properly locate their respective utility on the ground. This notification shall be given at least three (3) business days prior to commencement of operations around the utility.
- The contractor shall coordinate installation of utilities in such a manner as to avoid conflicts and assure proper depths are achieved as well as coordinating with the regulatory agency as to location and scheduling of tie-ins/connections to their facilities.
- All underground utilities (water sewer, storm sewer, electrical conduit, irrigation sleeves, and any other miscellaneous), shall be in-place prior to the placement of base course material.
- Utility contractor will be responsible for all top and tie on fees required, as well as cost of underground service connections.
- No more than 25 percent of the dollar amount of the contract may be awarded to subcontractors.
- The contractor shall provide a suitable office near the site for his use and at which copies of the specifications and drawings shall be kept. The contractor shall also designate to the owner a person to be notified in Murfreesboro in case of emergencies other than during working hours and on holidays and weekends.
- Site shall be graded to subgrade before water lines and sanitary sewers are installed.
- All mainline waterline taps are to be made by C.U.D.(Consolidated Utility District).
- Contractor shall comply with all requirements of the latest edition of C.U.D.'s specifications.
- In Tennessee it is a requirement per "the Underground Utility Damage Prevention Act" that anyone who engages in excavation must notify all known utility owners, no less than three nor more than ten working days, prior to their intended excavation. A list of these utility owners may be obtained from the county register of deeds those utility owners who participate in the Tennessee one call system can be notified toll free at (800) 351-1111.
- Where cleanouts, castings, valve boxes, fire hydrants, etc. are encountered and are to remain in use, in areas where elevations are to change or be paved, those features are to be adjusted to match proposed finished grades.

Sanitary Sewer Notes:

- The contractor must notify MWRD for sewer inspection prior to starting work.
- The owner/developer for budget purposes, should check with the Murfreesboro Water Resources Department for connection fees which may be substantial.
- Contractors for sewer work must be approved by the Murfreesboro Water Resources Department.
- Coordinates or dimensions shown are to centerline of pipe or fitting or to centerline of manhole.
- The top elevation of all manholes in paved areas shall match finish grade. The top elevation of all manholes in grassed areas shall be 6" above finished grade.
- The minimum horizontal separation between the closest two points of the water and sewer line is ten (10) feet. The minimum vertical separation between the closest two points of the water and sewer line shall be 18 inches.
- Complete specifications for the sewer lines, "Sewer Line Specifications and Drawings", March 2014 Ed., are on file at the Murfreesboro Water Resources Department Engineering Annex and can also be found online at <http://www.murfreesboron.gov/index.aspx?nid=284>
- Sanitary sewer wyes and 45° bends are to be the same material and class/wall thickness as the mainline pipe.
- All services shall be constructed such that the invert of the pipe at the property line is no less than 3 1/2 feet below the finished grade. Markers shall be provided at each service location.
- Under the current adopted plumbing code, the City of Murfreesboro requires the minimum floor elevation (M.F.E.) to be set at or above the top of casting elevation of the nearest manhole that is upstream of the sewer service connection. As an alternative, the homeowner shall install a backwater valve per the plumbing code and execute and record a release of indemnification against the City of Murfreesboro with regards to the sanitary sewer connection. The builder and/or homeowner shall be responsible for compliance with this requirement.
- Check dams, as called out in the MWRD Specifications, are to be installed at the discretion of the Water Resources Department.
- Sewer construction must be in accordance with all MWRD specifications and drawings.
- Contractor must have a State of Tennessee license, Municipal Utility (MU) classification, to perform work.
- The existing sewer main and/or manholes utilized or altered by this project must be tested before and after construction. Should the sewer not be tested prior to construction and defects found after construction will be the responsibility of the contractor to repair at his or her expense.
- All proposed manholes must be wrapped in a Conesol, or an approved equal, 12" minimum water and soil barrier wrap at each manhole section joint and at any other manhole component as directed by MWRD.
- No more than 25 percent of the dollar amount of the Contract may be awarded to subcontractors.
- A maximum of 2-6" (6 in.) adjustment rings will be allowed per any existing or proposed manholes associated with this installation. If any manhole requires adjustment beyond the 2-6" adjustment rings allowed then the contractor must remove, adjust, or add barrel sections to the manhole to get it to grade at his or her own expense.
- In accordance with TCA Section 7-59-310(b)(1), Competitive Cable and Video Services Act, in cases of new construction or property development where utilities are to be placed underground, the developer or property owner shall give all providers of cable or video serving the City of Murfreesboro dates on which open trenching will be available for the providers' installation of conduit, pedestals or vaults, and laterals, referred to as "equipment," to be provided at each such providers' expense.
- All newly constructed sanitary sewer mains, rehabilitated sanitary sewer laterals and mains, existing sanitary sewer mains that intersect under or over a newly constructed or removed utility, or any sewer main that has been physically altered in any way must be fully televised via an in-line Closed Circuit Television (CCTV) post construction survey fully compliant with the guidelines set forth by the National Association of Sewer Service Companies' (NASSCO) Pipeline Assessment Certification Program (PACP) at the expense of the contractor.
- Site is within the Overall Creek & Medical Center Parkway Sanitary Sewer Assessment Districts.

Natural Gas Notes:

1. Construction And Materials Provided By The Gas Company:

- Top Main
- Furnish and install mainline extension, including all trenching and backfilling.
- Furnish and install meter.
- Coordinate all work with Atmos Energy, Jerry Burke @ 615-566-3085 or Stephen Morris @ 615-893-5672

2. Construction and Materials Provided By The Contractor:

- Furnish and install service lateral, including all trenching and backfilling.
- Contractor shall include all fees required by the gas company to provide a complete working service.

Waterline Notes:

- All mainline taps are to be made by C.U.D.
- All water mains shall be hydrostatically tested and disinfected before acceptance.
- All trenches, pipe laying, and backfilling shall be in accordance with federal O.S.H.A. regulations.
- Contractor shall comply with all requirements of the latest edition of the CUD specifications.
- Utility contractor shall have approval of all governing agencies having jurisdiction over this system prior to installation.
- The developer must post bond, \$2,000 or \$250 for each valve box (whichever is greater), whenever the subject project has valve boxes that are located within pavement upon completion of the proposed water system extension.
- The owner/developer for budget purposes should contact CUD for related fees to project which may be substantial.
- The reduced pressure backflow preventer for the domestic water service must be above ground and outside also.
- Dedicated fire line must be installed by licensed sprinkler contractor.
- Water Service materials shall be copper type "K" unless otherwise noted on plans. Diameter shall be as noted on these plans and shall be installed with a minimum cover of 42" or below frost line, whichever is greater.
- Fire Main shall be ductile iron pipe pressure Class 350.
- Construction and Materials Provided By The Water Company:
 - Top Main.
 - Furnish and install curb stop and box and water meter.
 - Coordinate all work with the City of Murfreesboro, Greg Harvey & 615-848-3200.
 - Coordinate fire metering with the Consolidated Utility District (CUD), Bryant Bradley @ 615-225-3340.
- Construction and Materials Provided By The Contractor:
 - Furnish and install domestic & fire service service line from meter to building.
 - All trenching and backfilling.
 - Coordinate all work with the City of Murfreesboro, Greg Harvey @ 615-848-3200
 - Coordinate with Bryant Bradley (CUD) @ 615-225-3340 for water meter specifications.
 - Coordinate fire metering with the Consolidated Utility District, Bryant Bradley @ 615-225-3340
 - Fire hydrant, backflow preventer, DDCVA, hotbox & appurtenances.
- Contractor shall provide 100% irrigation per construction/project manager, irrigation plan, and city requirements. Coordinate sleeve locations with the construction/project manager and irrigation consultant prior to base stone, pavement, and curb installation.

City of Murfreesboro Standard Site Plan Notes:

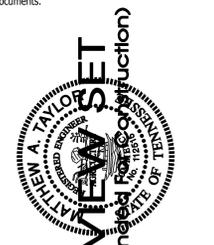
- In accordance with TCA Section 7-59-310(b)(1), Competitive Cable and Video Services Act, in cases of new construction or property development where utilities are to be placed underground, the developer or property owner shall give all providers of cable or video serving the City of Murfreesboro dates on which open trenching will be available for the providers' installation of conduit, pedestals or vaults, and laterals, referred to as "equipment," to be provided at each such providers' expense.
- All signage, including flags and flagpoles, is subject to independent review by the Building and Codes Department. All signage must conform to their requirements and require separate sign permits.
- A Land Disturbance Permit may be required. Determination whether a Land Disturbance Permit is required shall be made by the City Engineer. A separate Land Disturbance Permit application shall be made with the office of the City Engineer for review and upon approval for issuance of a Land Disturbance Permit.
- For all developments of more than one acre, a State of Tennessee Construction General Permit is required. Evidence of this permit must be provided to the office of the City Engineer prior to construction commencement.
- Contractor to coordinate with the Traffic Engineer in the City Transportation Department prior to commencement of work in this area to avoid damage to traffic signal devices.
- A TDDT permit may be required. Evidence of TDDT approval is required prior to the issuance of any building permits if required.
- A Stormwater Management Plan demonstrating that the site provides for treatment of the water quality volume and provides for management of the stream bank protection volume must be provided.
- An Engineers Certification of the construction of the stormwater management facilities must be provided to the City Engineer prior to issuance certificate of occupancy.
- A Stormwater Fee Credit Application must be submitted prior to the issuance of a building permit.
- A Stormwater Facilities Operation and Maintenance Plan and a Stormwater Facilities Maintenance Agreement must be submitted prior to issuance of a building permit.
- The Stormwater Facilities Maintenance Agreement must be recorded prior to certificate of occupancy.



BAKERS ROW, Suite 100
60 14th Street South
Birmingham, AL 35233
205.251.0125
www.kpsgroup.com

This Drawing is an instrument of service and is the sole property of the Architect. Any use without the written consent of the Architect is prohibited.

The Architect shall not have control or charge of and shall not be responsible for construction means and methods, deviations, techniques, sequences, or procedures, or for safety precautions and programs in connection with the work, for the acts or omissions of the contractor, subcontractors or any other persons performing any of the work in accordance with the contract documents.



REVIEW SET
(Not Intended For Construction)

BRANCH OFFICE BANK
MEDICAL CENTER PARKWAY
MURFREESBORO, TN



REDSTONE
FEDERAL CREDIT UNION
220 WYNN DRIVE
HUNTSVILLE, AL 35896

PROJECT STATUS	SCHEMATIC DESIGN
ISSUED -	NOT FOR CONSTRUCTION
ISSUE DATE	APRIL 21, 2017
REVISIONS	
No. Description	Date
IDR Comments	1-22-18
FDR Comments	2-20-18

DRAWING TITLE
General Notes

DRAWN BY: SIA
CHECKED BY: MAT

PROJECT
BRANCH OFFICE
BANK

PROJECT NUMBER
165026-02

DRAWING NO.
C1.00

Contractor To Coordinate With The Traffic Engineer In The City Transportation Department Prior To Commencement Of Work In The Area To Avoid Damage To Traffic Signal Devices. Contact Ram Balachandran @ 615-893-6441

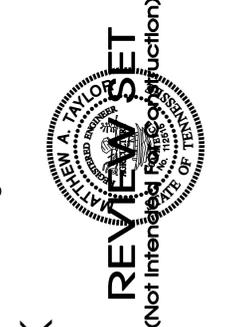
SEC, Inc.

SITE ENGINEERING CONSULTANTS
ENGINEERING • SURVEYING • LAND PLANNING
LANDSCAPE ARCHITECTURE

850 MIDDLE TENNESSEE BOULEVARD
MURFREESBORO, TENNESSEE 37129
NO PORTION OF THIS DRAWING MAY BE REPRODUCED
WITHOUT THE EXPRESS WRITTEN CONSENT OF S.E.C. INC.
SEC Project #: 13260

This Drawing is an instrument of service and is the sole property of the Architect. Any use without the written consent of the Architect is prohibited.

The Architect shall not have control or charge of and shall not be responsible for construction means and methods, deviations, techniques, sequences, or procedures, or for safety precautions and programs in connection with the work, for the acts or omissions of the contractor, subcontractors or any other persons performing any of the work in accordance with the contract documents.



REVIEW SET
(Not Intended For Construction)

BRANCH OFFICE BANK
MEDICAL CENTER PARKWAY
MURFREESBORO, TN

REDSTONE
FEDERAL CREDIT UNION
220 WYNN DRIVE
HUNTSVILLE, AL 35896

PROJECT STATUS	SCHEMATIC DESIGN
ISSUED -	NOT FOR CONSTRUCTION
ISSUE DATE	APRIL 21, 2017

REVISIONS	Date
No. Description	1-22-18
IDR Comments	2-20-18
FDR Comments	

DRAWING TITLE	Existing Conditions / Initial EPSC
DRAWN BY:	SIA
CHECKED BY:	MAT
PROJECT	BRANCH OFFICE BANK
PROJECT NUMBER	165026-02
DRAWING NO.	C2.00

Legend:

EXIST. CONCRETE MONUMENT	BENCHMARK
IRON PIN SET (I.P.S.)	HANDICAP PARKING SYMBOL
IRON PIN FOUND (I.P.F.)	VAN ACCESSIBLE HANDICAP DESIGNATION
EXIST. SIGN POST	HC SIGN
EXIST. SEWER CLEANOUT	PROPOSED SIGN POST
EXIST. MANHOLE (SEWER & PHONE)	CONCRETE BOLLARD
EXIST. CATCH BASIN (STORM SEWER)	WHEEL STOP
EXIST. WATER/GAS VALVE	CONCRETE SIDEWALK
EXIST. TELEPHONE RISER	EXTRUDED CURB
EXIST. GAS RISER	CURB & GUTTER
ELECTRICAL ENCLOSURE	TRAFFIC ARROW
EXIST. WATER METER	TURN LANE ARROWS
EXIST. UTILITY POLE	REVISION NUMBER
EXIST. FIRE HYDRANT	DRAINAGE STRUCTURE DESIGNATION
POST INDICATOR VALVE	DRAINAGE PIPE DESIGNATION
BLOW OFF VALVE	RIP RAP
REDUCER	RUNOFF FLOW ARROW
REMOTE FIRE DEPT. CONNECTION	INLET FILTER PROTECTION
CONCRETE THRUST BLOCK	PROPOSED SPOT ELEVATION
DOUBLE DETECTOR CHECK VALVE	EXIST. SPOT ELEVATION
FIRE DEPT. CONNECTION	SEWER/STORM FLOW DIRECTION
FIRE HYDRANT	CATCH BASIN
GATE VALVE & BOX	CURB INLET
WATER METER	AREA DRAIN
GAS METER	HEADWALL
GREASE TRAP	WINGED HEADWALL
EXTERIOR CLEANOUT ECO	CONCRETE SWALE
MANHOLE	TYPE- X- HEADWALL
EXISTING PHONE	PH
EXISTING ELECTRIC	OH
PROPERTY LINE	
EASEMENTS	
RIGHT OF WAY	ROW
EROSION CONTROL SILT FENCE	SF SF SF
EROSION EEL	E E E
EXISTING TREELINE	
EXISTING FENCELINE	X X X X
MINIMUM BUILDING SETBACK LINE	
PHASE BOUNDARY	-----
EXISTING GAS LINE	GAS
PROPOSED GAS LINE	GAS
EXISTING STORM	
PROPOSED STORM	STM STM
EXISTING CONTOUR LINES	601
PROPOSED CONTOUR LINES	601
EXISTING SANITARY SEWER	SS SS
PROPOSED SANITARY SEWER	SS SS
EXISTING WATER	W W
PROPOSED WATER	W W

SWPPP Narrative:

The existing site is located to the south of Veterans Pkwy and east of Pitchers Lane within Rutherford County in the City of Murfreesboro. The project site is a 1.95 Acre project and generally sheet flows from the east to the west. The site has been designed to discharge to existing downstream conveyance system to the northwest.

The existing soils on site consist of approximately 8.6% Bradyville Silt Loam categorized as type C hydrologic soil group and 91.4% Harpeth Silt Loam and Lomond Silt Loam categorized as type B hydrologic soil group per published information by the National Resources Conservation Service. The pre-developed site has a runoff curve number of 94. The proposed improvements will increase the runoff curve number to 85.

During demolition and mobilization, the sediment and stormwater runoff will be controlled with certain Best Management Practices (BMPs). Silt fence will be installed on the down slope sides of the site. The storm inlets will be protected with silt fence inlet protection until the stone base and pavements can be installed. A stone construction entrance will be installed upon mobilization of site to limit the tracking of mud and sediment onto the adjacent pavements and roadways. Covered dumpsters will be on site for disposal of trash and other debris. Paint and other potentially hazardous chemicals will be stored inside the building or otherwise approved weatherproof container. The contractor purchasing the materials will be responsible for legally disposing of the container. The contractor purchasing the materials will be responsible for legally disposing of the containers and excess materials in accordance with the manufacturers' recommendations. A washout area will be provided for the concrete trucks as required.

It is the contractor's responsibility during construction to install and maintain all sedimentation and storm water pollution prevention BMPs described above and detailed within the plans at all times, which includes regular removal and disposal of accumulated debris. All erosion and sediment controls must be maintained properly until the site is stabilized. Maintenance must include inspections of all erosion and sediment controls after each runoff event and on a weekly basis. All preventative and remedial maintenance work, including clean out, repair replacement, re-grading, re-seeding, re-mulching and re-netting must be performed immediately. The developer will own and maintain the site after construction has been completed.

Construction Sequence:

1. Stake and/or flag limits of clearing.
2. During preconstruction meeting all erosion & sediment control facilities & procedures shall be discussed.
3. Clear & grub, as necessary, for installation of perimeter controls.
4. Install silt fence perimeter controls as shown on plans.
5. Install construction entrance and concrete washout facility, if conditions are such that mud is collecting on vehicle tires, the tires must be cleaned before the vehicles enter the public roadway. The site entrance shall be maintained in a condition that will prevent the tracking or flow of mud onto the public right-of-way. All materials spilled, dropped, washed or tracked from vehicles onto the roadway must be removed promptly.
6. Clear & grub the remaining site as necessary.

EXISTING ON-SITE CONDITIONS

COVER	SCS CLASSIFICATION	AREA (Ac)
GRASS	MASS GRADED SITE D SOILS, CN=94	---
		COMPOSITE CN=---

PROPOSED ON-SITE CONDITIONS

COVER	SCS CLASSIFICATION	AREA (Ac)
BUILDING, SIDEWALK, PAVEMENT	PAVED PARKING LOTS, ROOFS, ETC. C-SOILS, CN=98	---
GRASS / LANDSCAPING	OPEN SPACE: GOOD CONDITION C-SOILS, CN=61	---
		COMPOSITE CN=---

PROPOSED BMP'S

BMP	TYPE
SEDIMENT CONTROL BARRIER	TEMPORARY, SEDIMENT CONTROL
CONSTRUCTION ENTRANCE	TEMPORARY, SEDIMENT CONTROL
VEGETATION	PERMANENT, EROSION PREVENTION
INLET PROTECTION	TEMPORARY, SEDIMENT CONTROL

INITIAL OUTFALLS

NUMBER	DESCRIPTION	AREA	SLOPE
1	CONSTRUCTION EXIT	---	1%
2	BOX CULVERT AT N.W. CORNER	---	1-2%



EPSC Phasing

- Initial:** Silt Fence Along Downgradient Perimeter Construction Entrance Temp. Conc. Washout
- Intermediate:** Filter Fabric Inlet Protection Silt Fence To Protect Ditches
- Final:** Landscaping & Grass Sod Of All Pervious Areas (See Landscaping Plan)

Notes:

Staging Area, Worker Parking & Adjoining Drive To Be Constructed Of Stone.

Staging Area is To Be Kept Litter Free With Daily Cleanup. In Addition, All Stored Materials Are To Be Kept In Organized & Stacked Fashion. An unkempt site will not be permitted, and if debris is stored in areas outside of the designated storage area, City Staff will shut down the job site.

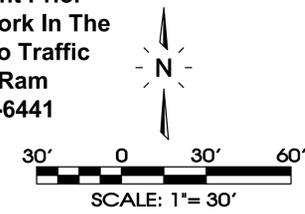
All Construction Signage Is To Be Constructed Of 2-4"x4" Painted Posts.

Sign #1 - Display Surface Can Be No More Than 32 S.F. & Must Be Less Than 9 Ft. Tall.

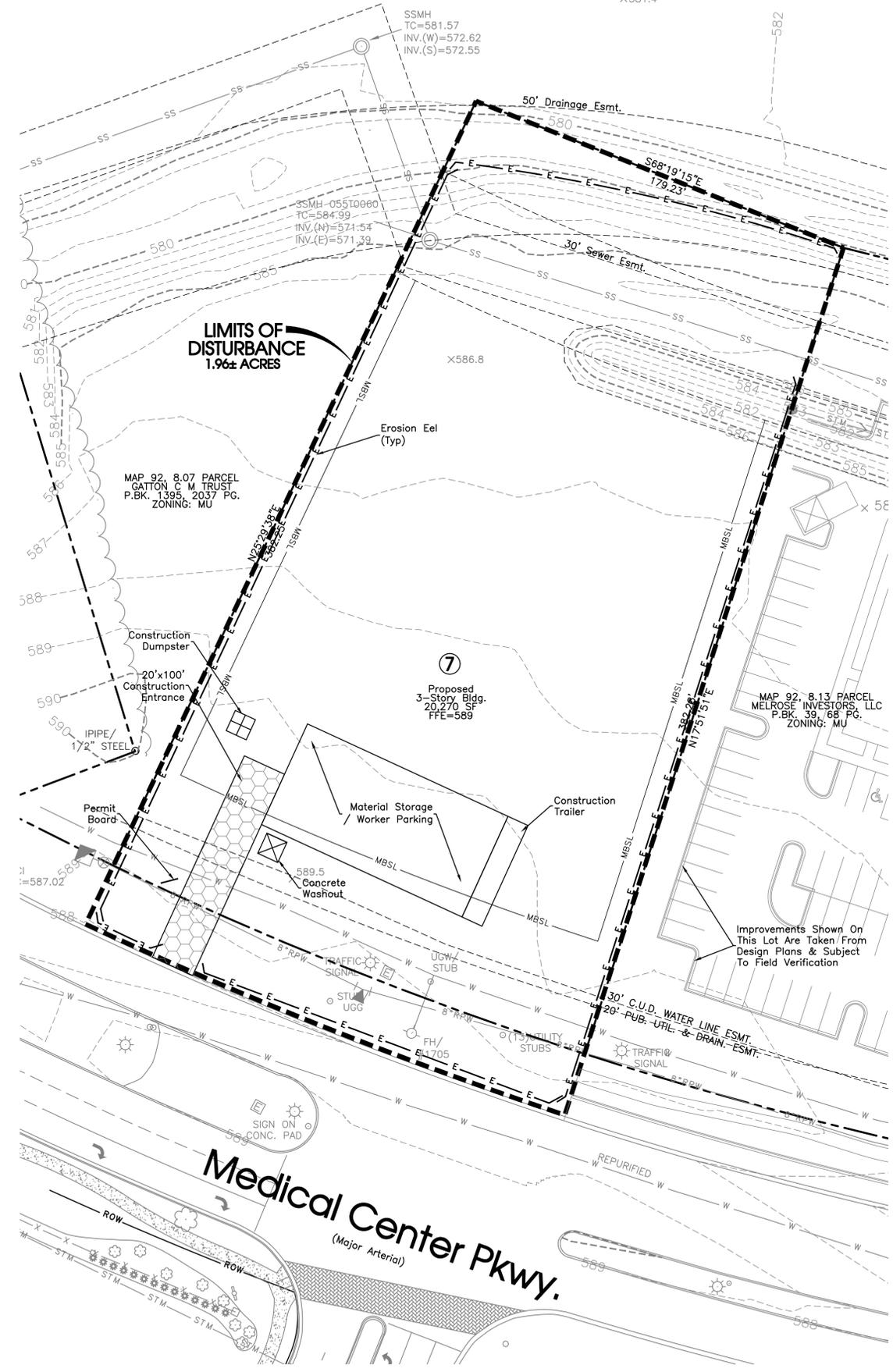
Notes:

Soils Survey Information Shown Here On Is Taken From The National Resources Conservation Service Web Soil Survey.

Contractor To Coordinate With The Traffic Engineer In The City Transportation Department Prior To Commencement Of Work In The Area To Avoid Damage To Traffic Signal Devices. Contact Ram Balachandran @ 615-893-6441



General Contractor Shall Install All Initial EPSC Measures Prior To Any Earthwork Beginning.

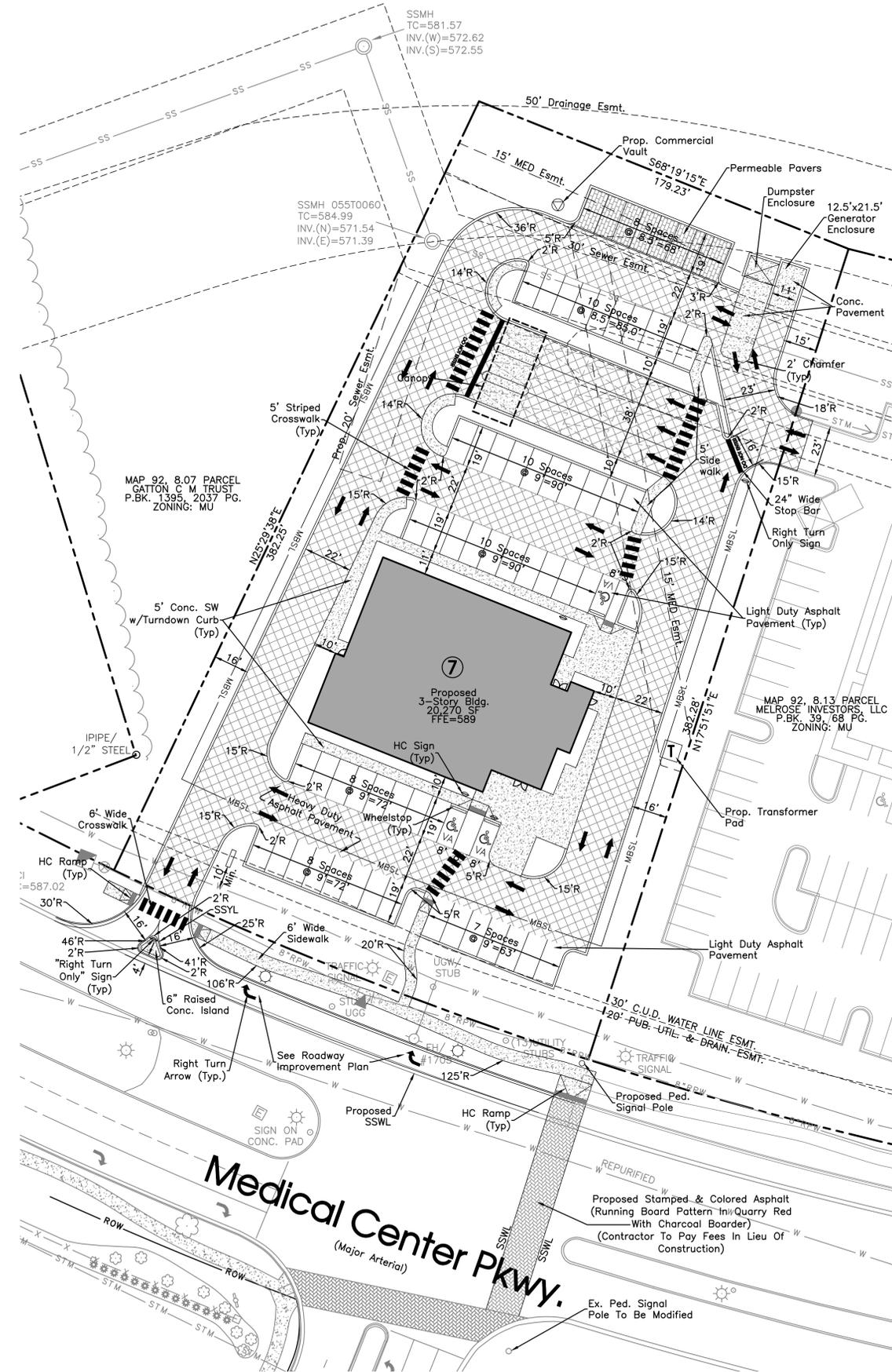


LIMITS OF DISTURBANCE
1.96± ACRES

MAP 92, 8.07 PARCEL
GATTON C M TRUST
P.B.K. 1395, 2037 PG.
ZONING: MU

MAP 92, 8.13 PARCEL
MELROSE INVESTORS, LLC
P.B.K. 39, 68 PG.
ZONING: MU

Medical Center Pkwy.
(Major Arterial)



Contractor To Coordinate With The Traffic Engineer In The City Transportation Department Prior To Commencement Of Work In The Area To Avoid Damage To Traffic Signal Devices. Contact Ram Balachandran @ 615-893-6441

Owner/Developer:
Redstone Federal Credit Union
220 Wynn Dr.
Huntsville, AL 35893

Deed Reference:
Tax Map 92, Parcel 8.12
R.Bk. 1534, Pg. 1581
P.Bk. 39, Pg. 68, Lot 7

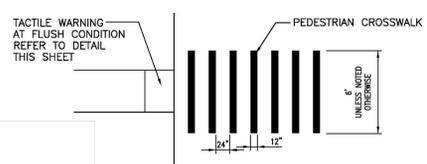
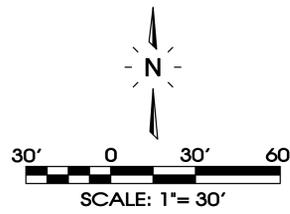
Yard Requirements:
Front: 15' (Along Local Streets)
50' (Along Medical Center Parkway)
Side: 10'
Rear: 20'

Intended Use:
Bank Branch (With Drive-Thru), Office Building

Land Use Data:
Zoned: MU
3-Story Building
Building Ht.: 48'-0"
Net Floor Area: 18,560 Sq.Ft.
1 Lot on: 1.81± Acres

Parking Requirement:
1/300 x 18,560 Sq.Ft. = 62 Spaces Required
Provided: 61 Regular + 3 H.C. = 64 Total Spaces Provided

Flood Map No.:
This site lies within Zone X, not in the 100 Year Floodplain, per Community Panel 47149C0260H dated January 5, 2007.



- NOTE:**
1. PEDESTRIAN CROSSWALK SHALL BE IN COMPLIANCE WITH ADAAG 4.7.10
 2. PEDESTRIAN CROSSWALK, SOLID WHITE THERMOPLASTIC MARKINGS ON ASPHALT (TYPICAL).
 3. THERMOPLASTIC 12" WIDE STRIPES AS INDICATED.

PEDESTRIAN CROSSWALK
NOT TO SCALE

Legend:			
□	EXIST. CONCRETE MONUMENT	⊕	BENCHMARK
●	IRON PIN SET (I.P.S.)	♿	HANDICAP PARKING SYMBOL
○	IRON PIN FOUND (I.P.F.)	V.A.	VAN ACCESSIBLE HANDICAP DESIGNATION
→	EXIST. SIGN POST	⇄	HC SIGN
○	EXIST. SEWER CLEANOUT	⇄	PROPOSED SIGN POST
○	EXIST. MANHOLE (SEWER & PHONE)	●	CONCRETE BOLLARD
⊖	EXIST. CATCH BASIN (STORM SEWER)	⊖	WHEEL STOP
⊗	EXIST. WATER/GAS VALVE	▬	CONCRETE SIDEWALK
⊞	EXIST. TELEPHONE RISER	▬	EXTRUDED CURB
⊞	EXIST. GAS RISER	▬	CURB & GUTTER
⊞	EXIST. WATER METER	⇄	TURN LANE ARROWS
○	EXIST. UTILITY POLE	1	REVISION NUMBER
○	EXIST. FIRE HYDRANT	#1	DRAINAGE STRUCTURE DESIGNATION
○	POST INDICATOR VALVE	A	DRAINAGE PIPE DESIGNATION
⊞	BLOW OFF VALVE	⊞	RIP RAP
▬	REDUCER	⇄	RUNOFF FLOW ARROW
⊞	REMOTE FIRE DEPT. CONNECTION	▬	INLET FILTER PROTECTION
▬	CONCRETE THRUST BLOCK	63.25 X	PROPOSED SPOT ELEVATION
▬	DOUBLE DETECTOR CHECK VALVE	(63.25) X	EXIST. SPOT ELEVATION
▬	FIRE DEPT. CONNECTION	>	SEWER/STORM FLOW DIRECTION
⊞	FIRE HYDRANT	▬	CATCH BASIN
⊞	GATE VALVE & BOX	▬	CURB INLET
⊞	WATER METER	⊞	AREA DRAIN
⊞	GAS METER	▬	HEADWALL
⊞	GREASE TRAP	▬	WINGED HEADWALL
○	EXTERIOR CLEANOUT ECO	▬	CONCRETE SWALE
○	MANHOLE	⊞	TYPE - X - HEADWALL
▬	EXISTING PHONE	PH	
▬	EXISTING ELECTRIC	OH	
▬	PROPERTY LINE		
▬	EASEMENTS		
▬	RIGHT OF WAY	ROW	
▬	EROSION CONTROL SILT FENCE	SF SF SF	
▬	EROSION EEL	E E E	
▬	EXISTING TREELINE		
▬	EXISTING FENCELINE	X X X X	
▬	MINIMUM BUILDING SETBACK LINE		
▬	PHASE BOUNDARY		
▬	EXISTING GAS LINE	GAS	
▬	PROPOSED GAS LINE	GAS	
▬	EXISTING STORM		
▬	PROPOSED STORM	STM STM	
▬	EXISTING CONTOUR LINES		
▬	PROPOSED CONTOUR LINES	601	
▬	EXISTING SANITARY SEWER	SS	
▬	PROPOSED SANITARY SEWER	SS	
▬	EXISTING WATER	W	
▬	PROPOSED WATER	W	

K|P|S GROUP
BAKERS ROW, Suite 100
60 14th Street South
Birmingham, AL 35233
205.251.0125
www.kpsgroup.com

This Drawing is an instrument of service and is the sole property of the Architect. Any use without the written consent of the Architect is prohibited.

The Architect shall not have control or charge of and shall not be responsible for construction means and methods, deviations, techniques, sequences, or procedures, or for safety precautions and programs in connection with the work, for the acts or omissions of the contractor, subcontractors or any other persons performing any of the work in accordance with the contract documents.

REVIEW SET
(Not Intended For Construction)

REDSTONE FEDERAL CREDIT UNION
220 WYNN DRIVE
HUNTSVILLE, AL 35896

BRANCH OFFICE BANK
MEDICAL CENTER PARKWAY
MURFREESBORO, TN

PROJECT STATUS	SCHEMATIC DESIGN
ISSUED -	NOT FOR CONSTRUCTION
ISSUE DATE	APRIL 21, 2017
REVISIONS	
No. Description	Date
IDR Comments	1-22-18
FDR Comments	2-20-18

DRAWING TITLE
Site Plan

DRAWN BY: SIA
CHECKED BY: MAT

PROJECT
BRANCH OFFICE BANK

PROJECT NUMBER
165026-02

DRAWING NO.
C3.00

SEC, Inc.
SITE ENGINEERING CONSULTANTS
ENGINEERING • SURVEYING • LAND PLANNING
LANDSCAPE ARCHITECTURE
850 MIDDLE TENNESSEE BOULEVARD
MURFREESBORO, TENNESSEE 37129
NO PORTION OF THIS DRAWING MAY BE REPRODUCED WITHOUT THE EXPRESSED WRITTEN CONSENT OF S.E.C. INC.
SEC Project #: 13260

This Drawing is an instrument of service and is the sole property of the Architect. Any use without the written consent of the Architect is prohibited.

The Architect shall not have control or charge of and shall not be responsible for construction means and methods, deviations, techniques, sequences, or procedures, or for safety precautions and programs in connection with the work, for the acts or omissions of the contractor, subcontractors or any other persons performing any of the work in accordance with the contract documents.



REVIEW SET
(Not Intended For Construction)

BRANCH OFFICE BANK
MEDICAL CENTER PARKWAY
MURFREESBORO, TN

REDSTONE
FEDERAL CREDIT UNION
220 WYNN DRIVE
HUNTSVILLE, AL 35896

PROJECT STATUS	SCHEMATIC DESIGN
ISSUED -	NOT FOR CONSTRUCTION
ISSUE DATE	APRIL 21, 2017
REVISIONS	
No. Description	Date
IDR Comments	1-22-18
FDR Comments	2-20-18

EXISTING PHONE	PH
EXISTING ELECTRIC	OH
PROPERTY LINE	
EASEMENTS	
RIGHT OF WAY	ROW
EROSION CONTROL SILT FENCE	SF SF SF
EROSION EEL	E E E
EXISTING TREELINE	
EXISTING FENCELINE	X X X X
MINIMUM BUILDING SETBACK LINE	
PHASE BOUNDARY	-----
EXISTING GAS LINE	GAS
PROPOSED GAS LINE	GAS
EXISTING STORM	
PROPOSED STORM	STM STM
EXISTING CONTOUR LINES	601
PROPOSED CONTOUR LINES	601
EXISTING SANITARY SEWER	SS SS
PROPOSED SANITARY SEWER	SS SS
EXISTING WATER	W W
PROPOSED WATER	W W

DRAWING TITLE
Utility Plan

DRAWN BY: SIA
CHECKED BY: MAT

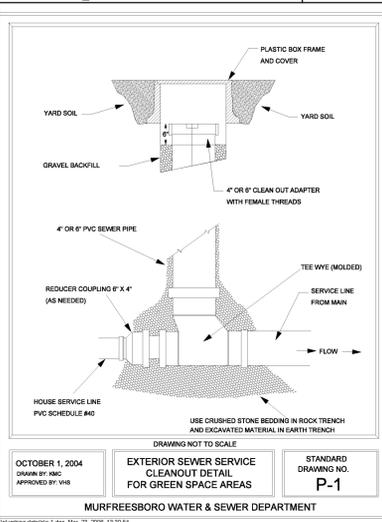
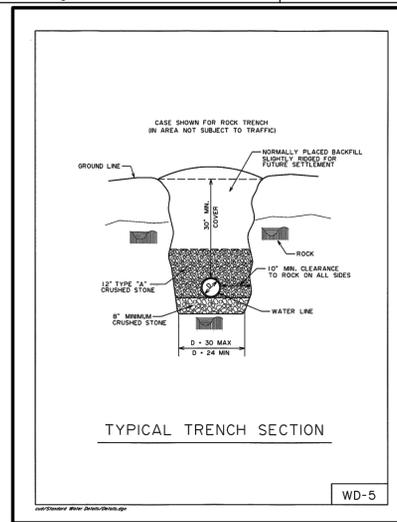
PROJECT
BRANCH OFFICE BANK

PROJECT NUMBER
165026-02

DRAWING NO.
C3.01

Legend:

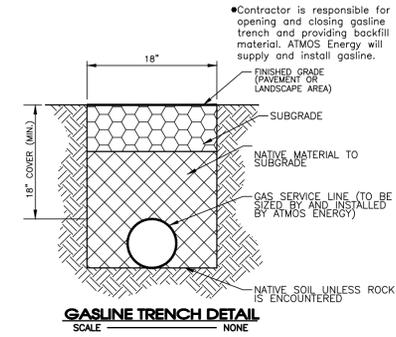
EXIST. CONCRETE MONUMENT	BENCHMARK
IRON PIN SET (I.P.S.)	HANDICAP PARKING SYMBOL
IRON PIN FOUND (I.P.F.)	VAN ACCESSIBLE HANDICAP DESIGNATION
EXIST. SIGN POST	HC SIGN
EXIST. SEWER CLEANOUT	PROPOSED SIGN POST
EXIST. MANHOLE (SEWER & PHONE)	CONCRETE BOLLARD
EXIST. CATCH BASIN (STORM SEWER)	WHEEL STOP
EXIST. WATER/GAS VALVE	CONCRETE SIDEWALK
EXIST. TELEPHONE RISER	EXTRUDED CURB
EXIST. GAS RISER	CURB & GUTTER
ELECTRICAL ENCLOSURE	TRAFFIC ARROW
EXIST. WATER METER	TURN LANE ARROWS
EXIST. UTILITY POLE	REVISION NUMBER
EXIST. FIRE HYDRANT	DRAINAGE STRUCTURE DESIGNATION
POST INDICATOR VALVE	DRAINAGE PIPE DESIGNATION
BLOW OFF VALVE	RIP RAP
REDUCER	RUNOFF FLOW ARROW
REMOTE FIRE DEPT. CONNECTION	INLET FILTER PROTECTION
CONCRETE THRUST BLOCK	PROPOSED SPOT ELEVATION
DOUBLE DETECTOR CHECK VALVE	EXIST. SPOT ELEVATION
FIRE DEPT. CONNECTION	SEWER/STORM FLOW DIRECTION
FIRE HYDRANT	CATCH BASIN
GATE VALVE & BOX	CURB INLET
WATER METER	AREA DRAIN
GAS METER	HEADWALL
GREASE TRAP	WINGED HEADWALL
EXTERIOR CLEANOUT ECO	CONCRETE SWALE
MANHOLE	TYPE- X- HEADWALL



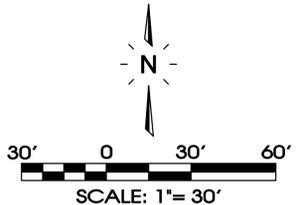
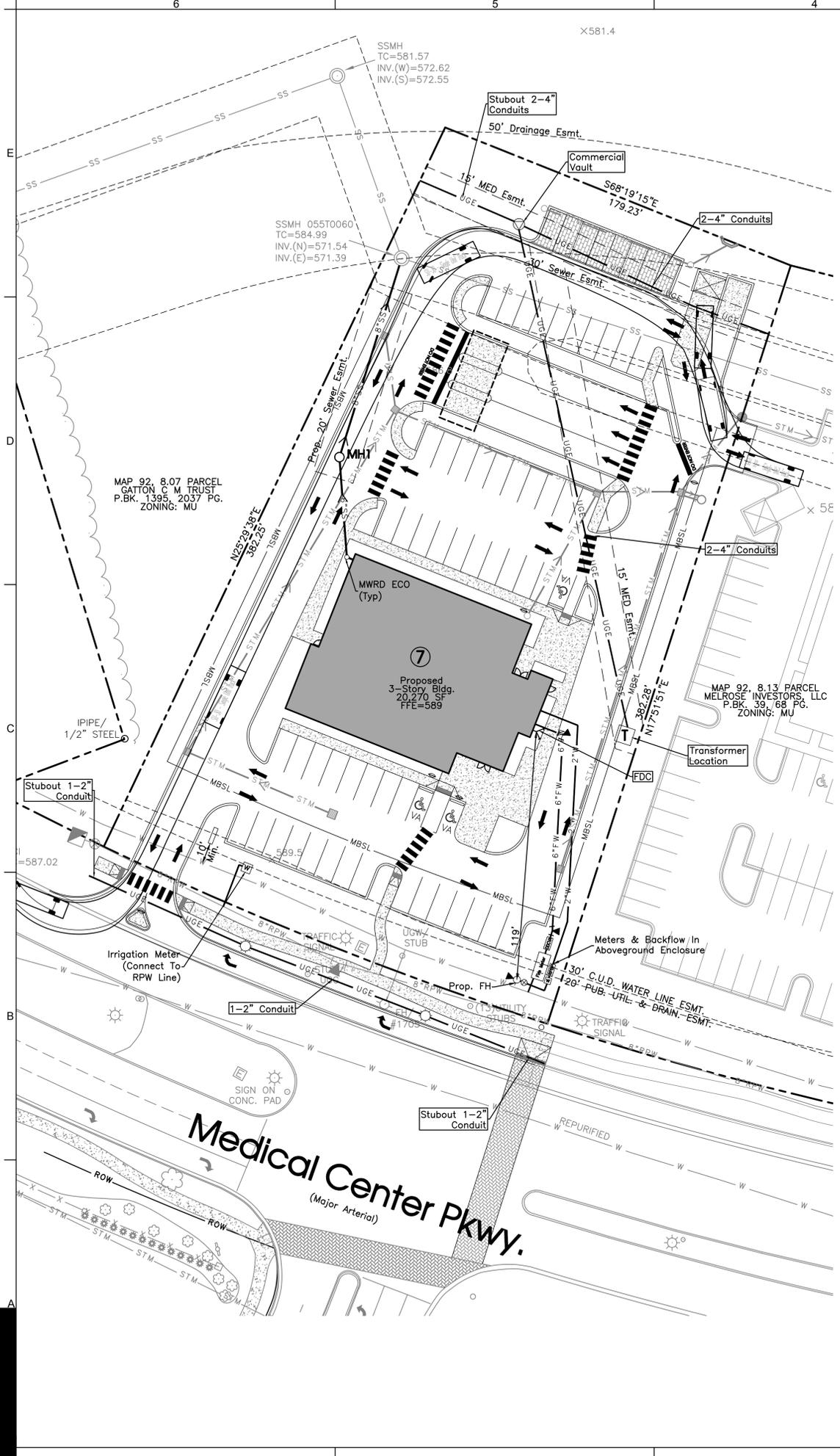
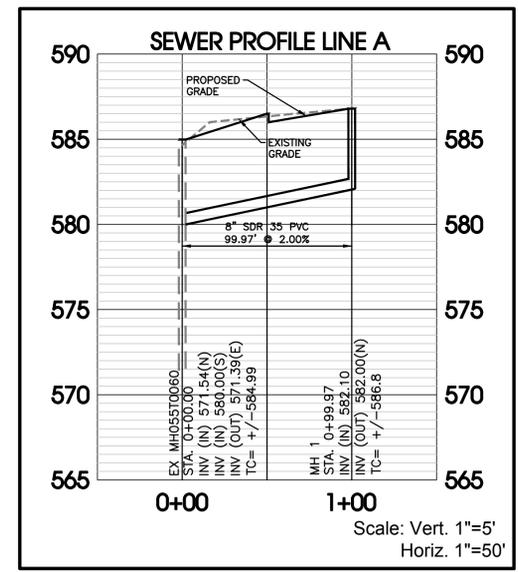
Electrical Legend:

Commercial Vault
Transformer

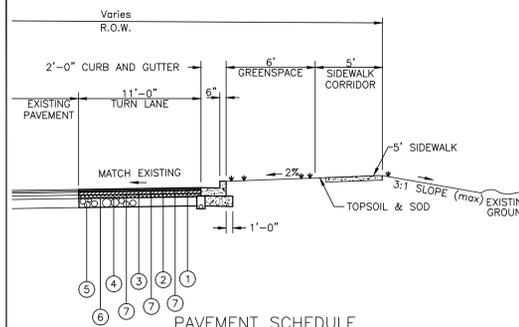
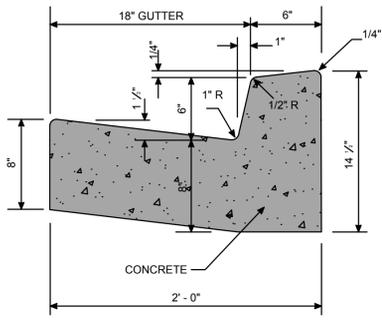
- Fire Line Notes:**
- Dedicated Fire Water Lines Must Be Inspected And Approved By FMO Prior To Being Covered.
 - Upon Completion Of Fire Water Lines, A 2 Hour, 200 Pound Pressure Test Must Be Witnessed And Approved By FMO.
 - FDC To Be Knox Storz Guard FDC With A 30 Degree Elbow And Locking Cap Sized 5" Storz x 4" NPT.
 - An Approved Knox 3200 Series Surface Or Recessed Mounting Lock Box Is Required At Riser Room Access Door.
 - An Exterior Electric Horn/Strobe Is Required Above FDC. No Water Gongs.
 - All fire line piping from point of service shall be installed by a TN registered sprinkler contractor.
 - Waterlines servicing fire hydrant must be in place & operational prior to bringing combustibles onsite.



Contractor To Coordinate With The Traffic Engineer In The City Transportation Department Prior To Commencement Of Work In The Area To Avoid Damage To Traffic Signal Devices. Contact Ram Balachandran @ 615-893-6441



SEC, Inc.
SITE ENGINEERING CONSULTANTS
ENGINEERING • SURVEYING • LAND PLANNING
LANDSCAPE ARCHITECTURE
850 MIDDLE TENNESSEE BOULEVARD
MURFREESBORO, TENNESSEE 37129
NO PORTION OF THIS DRAWING MAY BE REPRODUCED
WITHOUT THE EXPRESSED WRITTEN CONSENT OF S.E.C. INC.
SEC Project #: 13260

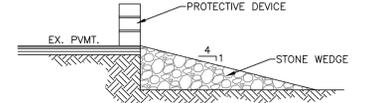


PAVEMENT SCHEDULE

- SURFACE GRADING D @ 1.25" 411-02.10 - ACS MIX (PG70-22) GRADING D
- BINDER GRADING B-M2 @ 2.0" 307-02.08 - ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2
- ASPHALT BASE GRADING A @ 3.0" 307-02.01 - ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A
- ASPHALT BASE GRADING A-S @ 3.0" 307-02.02 - ASPHALT CEMENT (PG70-22) (BPMB-HM) GRADING A-S 307-02.03 - AGGREGATE (BPMB-HM) GRADING A-S MIX
- MINERAL AGGREGATE BASE @ 8.0" 303-01 - MINERAL AGGREGATE, TYPE A BASE, GRADING D
- PRIME COAT 402-01 - BITUMINOUS MATERIAL FOR PRIME COAT (PC) @ 0.30-0.35 GAL/SY 402-02 - AGGREGATE FOR COVER MATERIAL (FC) @ 8-12 LBS/SY
- TACK COAT 403-01 - BITUMINOUS MATERIAL FOR TACK COAT (TC) @ 0.02 GAL/SY

TURN LANE SECTION
SCALE NONE

CONCRETE CURB AND GUTTER (TYPE 6-24)	City of MURFREESBORO TENNESSEE
ST-12	July 2009



THE CONTRACTOR SHALL SCHEDULE THE WORKS SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE ONCE THE CONTRACTOR BEGINS AND ACTIVITY THAT CREATES AND ELEVATION DIFFERENCE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE CONDITION IS ELIMINATED.

PAVEMENT DROP-OFF
SCALE NONE

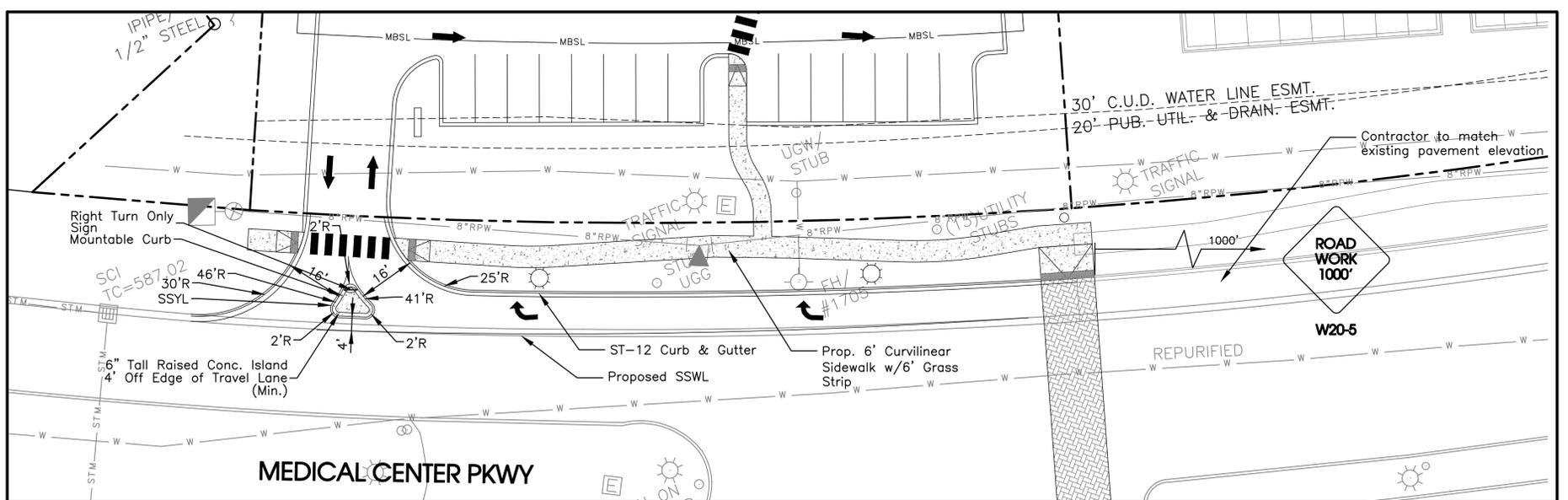
Contractor To Coordinate With The Traffic Engineer In The City Transportation Department Prior To Commencement Of Work In The Area To Avoid Damage To Traffic Signal Devices. Contact Ram Balachandran @ 615-893-6441

TRAFFIC CONTROL

- ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.
- IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL BID.
- A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.
- TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.
- USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS 30-FOOT SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS 30-FOOT SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THIS SET OF PLANS IS NOT INTENDED TO SUPERSEDE OR RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY TOWARD MOTORISTS, PEDESTRIANS OR PROPERTY OWNERS WITHIN THE CONSTRUCTION LIMITS.
- THIS PLAN IS TO SERVE AS A GUIDE ONLY. OTHER SIGNS MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION. ALL REGULATORY AND WARNING SIGNS WHICH ARE NO LONGER APPROPRIATE BECAUSE OF THE CONSTRUCTION SHALL BE COVERED OR REMOVED.
- THE APPROPRIATE TRAFFIC CONTROL SHALL BE INSTALLED AT THE INCEPTION OF EACH STAGE OF CONSTRUCTION AND SHALL BE PROPERLY MAINTAINED AND/OR OPERATED DURING THE TIME SUCH SPECIAL CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED AND SHALL BE IMMEDIATELY REMOVED THEREAFTER.
- ALL TRAFFIC CONTROL DEVICES AND THEIR INSTALLATION SHALL MEET THE STANDARD PRESCRIBED IN THE STATE OF TENNESSEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL COMPLY WITH THE STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION, BUREAU OF HIGHWAYS, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 712 - TEMPORARY TRAFFIC CONTROL.
- BARRICADE WARNING LIGHTS SHALL BE ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD FOR FLASHING AND STEADY BURN BARRICADE WARNING LIGHTS 1978.
- AT ALL TIMES THE ROADWAY MUST BE MAINTAINED IN A CONDITION TO ALLOW THE PASSAGE OF EMERGENCY VEHICLES AND THEIR ACCESS TO RESIDENCES/BUSINESSES THROUGHOUT THE CONSTRUCTION ZONE.
- FLEXIBLE DRUMS FOR CHANNELIZING TRAFFIC ARE TO BE PROVIDED AS SHOWN OR AS REQUIRED BY THE ENGINEER.
- DURING CONSTRUCTION ALL TRAVEL LANES (PERMANENT OR TEMPORARY) SHALL BE A MINIMUM OF TEN (10) FEET IN WIDTH AND SHALL INCLUDE ALL SIGNING IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
- THE TRAFFIC CONTROL PLAN AS SHOWN SHALL BE CONSIDERED AS A MINIMUM. OTHER DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER OR AS DIRECTED BY THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- ALL SIGNS, BARRICADES AND WARNING LIGHTS SHALL CONFORM WITH SECTION VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED IMMEDIATELY UPON COMPLETION OF THE PROJECT.
- ANY TEMPORARY OR PERMANENT PAVEMENT MARKINGS SHALL BE FIRST APPROVED BY THE CITY TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL COMPLY WITH SECTION 712 REGARDING TEMPORARY TRAFFIC CONTROL OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" IN THE IMPLEMENTATION OF THE TRAFFIC CONTROL PLAN. TEMPORARY CENTERLINE AND LANE MARKING SHALL BE PROVIDED AT THE CONCLUSION OF EACH WORK DAY DURING THE RESURFACING PORTION OF THIS PROJECT.
- ANY LANE CLOSURES SHALL BE SIGNED IN ACCORDANCE WITH SECTION VI OF MUTCD.
- LANE CLOSURES INVOLVING MORE THAN ONE THROUGH LANE AT A TIME SHALL BE APPROVED BY THE CITY ENGINEER.
- THE CONTRACTOR IS DIRECTLY RESPONSIBLE FOR THE PROVISION OF ANY AND ALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH MUTCD AND SECTION 712 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED IMMEDIATELY UPON COMPLETION OF THE PORTION OF THE PROJECT. DURING CONSTRUCTION, CONTRACTOR SHALL FOLLOW T.D.O.T.'S "GUIDELINES FOR HANDLING DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS".
- IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 6 INCHES.
 - SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING.
 - WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.
 - WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.
 - ELIMINATE VERTICAL OFFSET BY CONSTRUCTING A STONE WEDGE OR GRADING TO A 4:1 SLOPE, OR FLATTER, OR USE PORTABLE BARRIER RAIL. THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE WITHIN 8 FEET OF A TRAFFIC LANE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.
- PRIOR TO CLOSING ANY ROAD TO THROUGH TRAFFIC, THE CONTRACTOR WILL BE REQUIRED TO NOTIFY ALL AFFECTED LOCAL AGENCIES CONCERNING THE ROAD CLOSURE. THE AGENCIES TO BE CONTACTED SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: FIRE DEPT., SHERIFFS DEPT., POST OFFICE, BOARD OF EDUCATION, ETC.
- SIGNAGE SHALL COMPLY WITH M.U.T.C.D. AND WITH T.D.O.T. STD. DWGS. T-M-1 THROUGH T-M-4.
- TRENCHES IN STREETS TEMPORARILY OPENED TO TRAFFIC SHALL BE MAINTAINED AND SURFACED WITH COLD MIX OR BINDER UNTIL FINAL CONSTRUCTION.
- THE CONTRACTOR MAY DEVELOP AN ALTERNATE TRAFFIC CONTROL PLAN IF APPROVED BY THE CITY TRAFFIC DEPT AND CITY ENGINEER.
- ACCESS TO PROPERTY WITHIN CONSTRUCTION LIMITS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR SHALL FURNISH FLAGGER(S) AS NECESSARY.
- THESE PLANS ARE NOT INTENDED TO SUPERSEDE OR RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY TOWARD MOTORISTS OR PROPERTY OWNERS WITHIN CONSTRUCTION LIMITS OR TOWARD INSTALLING TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH CURRENT M.U.T.C.D. REQUIREMENTS.
- ALL PAVEMENT STRIPING IN PUBLIC RIGHT-OF-WAY TO BE THERMOPLASTIC.

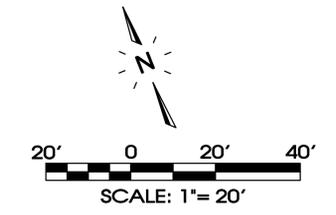
NOTES:
COORDINATE ALL PAVEMENT MARKINGS WITH THE CITY TRAFFIC ENGINEER CONTACT THE ENGINEERING DEPT. 24 HRS PRIOR TO BEGINNING FOR APPROVAL OF LINE LOCATION.

LANE CLOSURES WILL ONLY BE ALLOWED DURING THE HOURS OF 8:30AM AND 3:30PM. COORDINATE ANY CLOSURE WITH THE CITY TRAFFIC ENGINEER.



Legend:

EXIST. CONCRETE MONUMENT SYMBOL	BENCHMARK
IRON PIN SET (I.P.S.)	HANDICAP PARKING SYMBOL
IRON PIN FOUND (I.P.F.)	V.A. VAN ACCESSIBLE HANDICAP DESIGNATION
EXIST. SIGN POST	HC SIGN
EXIST. SEWER CLEANOUT (SEWER & PHONE)	PROPOSED SIGN POST
EXIST. MANHOLE (STORM SEWER)	CONCRETE BOLLARD
EXIST. CATCH BASIN (STORM SEWER)	WHEEL STOP
EXIST. WATER/GAS VALVE	CONCRETE SIDEWALK
EXIST. TELEPHONE RISER	EXTRUDED CURB
EXIST. GAS RISER	CURB & GUTTER
ELECTRICAL ENCLOSURE	TRAFFIC ARROW
EXIST. WATER METER	TURN LANE ARROWS
EXIST. UTILITY POLE	REVISION NUMBER
EXIST. FIRE HYDRANT	DRAINAGE STRUCTURE DESIGNATION
POST INDICATOR VALVE	DRAINAGE PIPE DESIGNATION
BLOW OFF VALVE	RIP RAP
REDUCER	RUNOFF FLOW ARROW
REMOVE FIRE DEPT. CONNECTION	INLET FILTER PROTECTION
CONCRETE THRUST BLOCK	PROPOSED SPOT ELEVATION
DOUBLE DETECTOR CHECK VALVE	EXIST. SPOT ELEVATION
FIRE DEPT. CONNECTION	SEWER/STORM FLOW DIRECTION
FIRE HYDRANT	CATCH BASIN
GATE VALVE & BOX	CURB INLET
WATER METER	AREA DRAIN
GAS METER	HEADWALL
GREASE TRAP	WINGED HEADWALL
EXTERIOR CLEANOUT ECO	CONCRETE SWALE
MANHOLE	TYPE- X- HEADWALL



SEC, Inc.
SITE ENGINEERING CONSULTANTS
ENGINEERING • SURVEYING • LAND PLANNING
LANDSCAPE ARCHITECTURE
850 MIDDLE TENNESSEE BOULEVARD
MURFREESBORO, TENNESSEE 37129
NO PORTION OF THIS DRAWING MAY BE REPRODUCED WITHOUT THE EXPRESSED WRITTEN CONSENT OF S.E.C. INC.
SEC Project #: 13260



This Drawing is an instrument of service and is the sole property of the Architect. Any use without the written consent of the Architect is prohibited.

The Architect shall not have control or charge of and shall not be responsible for construction means and methods, deviations, techniques, sequences, or procedures, or for safety precautions and programs in connection with the work, for the acts or omissions of the contractor, subcontractors or any other persons performing any of the work in accordance with the contract documents.



BRANCH OFFICE BANK
MEDICAL CENTER PARKWAY
MURFREESBORO, TN

REDSTONE FEDERAL CREDIT UNION
220 WYNN DRIVE
HUNTSVILLE, AL 35896

PROJECT STATUS	SCHEMATIC DESIGN
ISSUED -	NOT FOR CONSTRUCTION
ISSUE DATE	APRIL 21, 2017
REVISIONS	
No. Description	Date
IDR Comments	1-22-18
FDR Comments	2-20-18

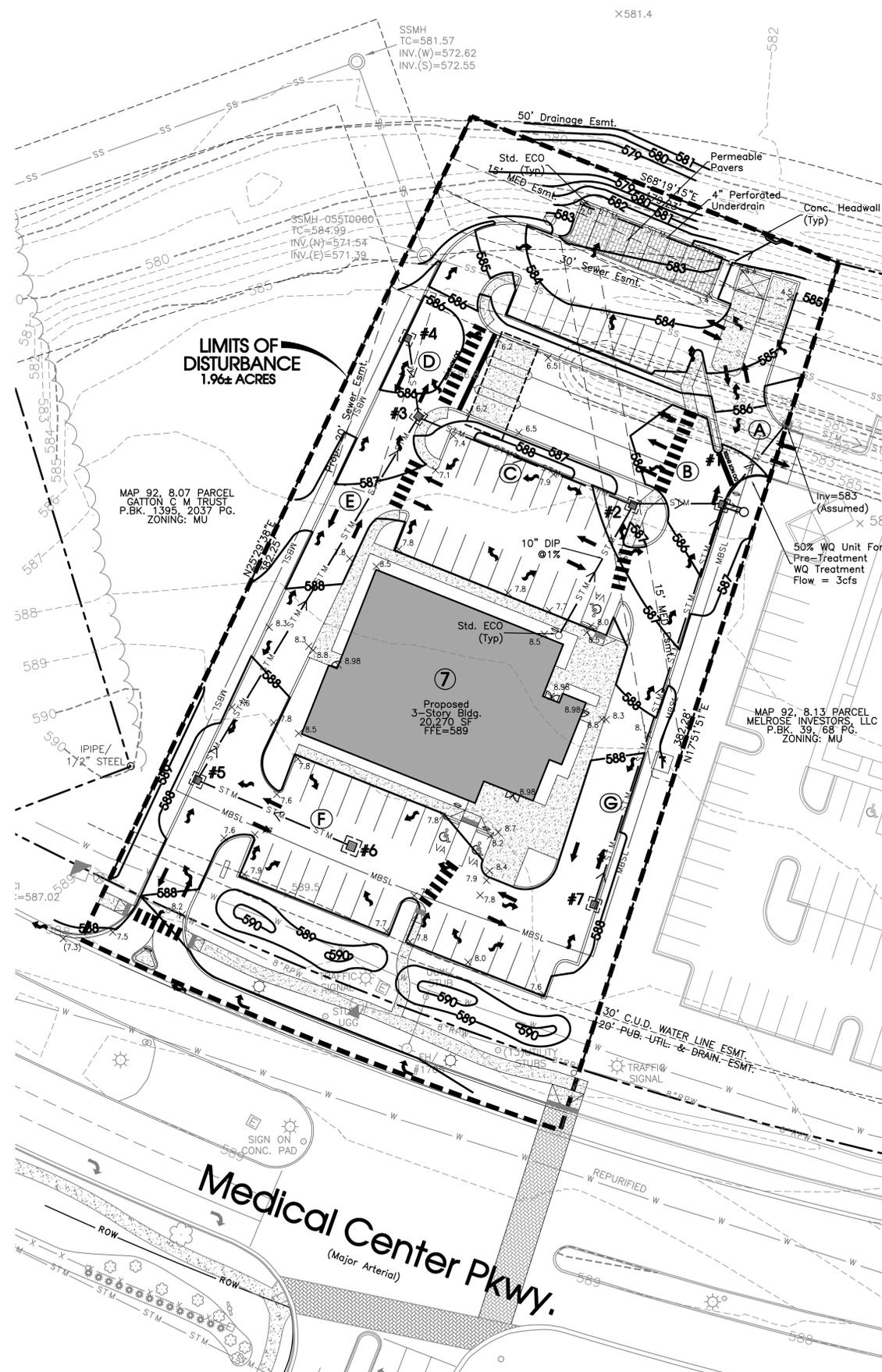
DRAWING TITLE
Offsite Improvement Plan

DRAWN BY: SIA
CHECKED BY: MAT

PROJECT
BRANCH OFFICE BANK

PROJECT NUMBER
165026-02

DRAWING NO.
C3.02



Contractor To Coordinate With The Traffic Engineer In The City Transportation Department Prior To Commencement Of Work In The Area To Avoid Damage To Traffic Signal Devices. Contact Ram Balachandran @ 615-893-6441

FINAL OUTFALLS

NUMBER	DESCRIPTION	AREA	SLOPE
1	BOX CULVERT AT N.W. CORNER		1-5%



Pipe Table

PIPE	INV. IN (FT)	INV. OUT (FT)	LENGTH (FT)	SLOPE (%)	MATERIAL	SIZE (IN)
A	582.60	582.50	33	0.30	RCP	24
B	582.74	582.60	47	0.30	RCP	18
C	583.05	582.74	105	0.30	RCP	15
D	583.16	583.05	36	0.30	RCP	15
E	583.63	583.05	192	0.30	RCP	15
F	583.86	583.63	76	0.30	RCP	15
G	583.22	582.60	205	0.30	RCP	15

Drainage Structures Table

STR#	T.O.C	INV. IN (FT)	INV. OUT (FT)	CASTING	TYPE
1	585.50	582.60(B) 582.60(G)	582.6	JBS 4075	Catch Basin
2	586.80	582.74	582.74	JBS 3104	Single Curb Inlet
3	586.40	583.05(D) 583.05(E)	583.05	JBS 4075	Catch Basin
4	585.50	N/A	583.16	JBS 3104	Single Curb Inlet
5	587.20	583.63	583.63	JBS 3104	Single Curb Inlet
6	587.30	N/A	583.86	JBS 4075	Catch Basin
7	587.30	N/A	583.22	JBS 4075	Catch Basin

NOTES:
 1) Final EPSC Measures Shown Here On Shall Be Enacted As Early As Practical During Construction. Stabilization Timing Criteria Has Been Established In The SWPPP and TNCGP.
 2) Inlet Protection, Erosion Blanket & Temporary Stabilization (I.E. Seed & Mulch) Will Be Installed By General Contractor. Permanent Stabilization Measure (I.E. Sod, Landscape, Pavement) Will Be Installed By Owner.

SEC, Inc.
 SITE ENGINEERING CONSULTANTS
 ENGINEERING • SURVEYING • LAND PLANNING
 LANDSCAPE ARCHITECTURE
 850 MIDDLE TENNESSEE BOULEVARD
 MURFREESBORO, TENNESSEE 37129
 NO PORTION OF THIS DRAWING MAY BE REPRODUCED WITHOUT THE EXPRESSED WRITTEN CONSENT OF S.E.C. INC.
 SEC Project #: 13260

K|P|S GROUP
 BAKERS ROW, Suite 100
 60 14th Street South
 Birmingham, AL 35233
 205.251.0125
 www.kpsgroup.com

This Drawing is an instrument of service and is the sole property of the Architect. Any use without the written consent of the Architect is prohibited.

The Architect shall not have control or charge of and shall not be responsible for construction means and methods, deviations, techniques, sequences, or procedures, or for safety precautions and programs in connection with the work, for the acts or omissions of the contractor, subcontractors or any other persons performing any of the work in accordance with the contract documents.

REVIEW SET
 (Not Intended For Construction)

BRANCH OFFICE BANK
 MEDICAL CENTER PARKWAY
 MURFREESBORO, TN

REDSTONE FEDERAL CREDIT UNION
 220 WYNN DRIVE
 HUNTSVILLE, AL 35896

PROJECT STATUS	SCHEMATIC DESIGN
ISSUED -	NOT FOR CONSTRUCTION
ISSUE DATE	APRIL 21, 2017
REVISIONS	
No. Description	Date
IDR Comments	1-22-18
FDR Comments	2-20-18

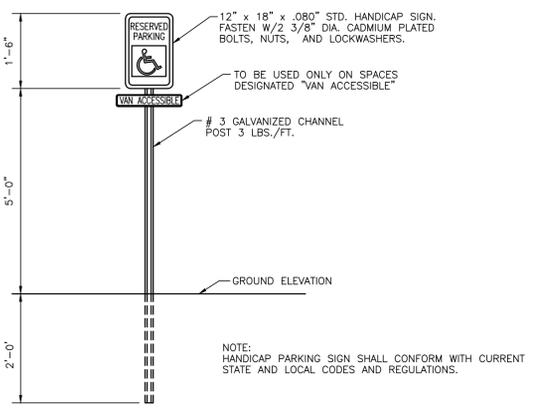
DRAWING TITLE
Grading, Drainage & Final EPSC Plan

DRAWN BY: SIA
 CHECKED BY: MAT

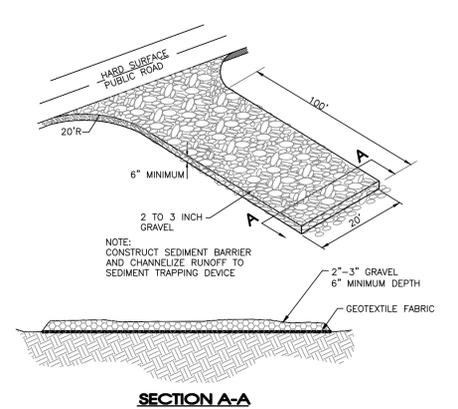
PROJECT
BRANCH OFFICE BANK

PROJECT NUMBER
 165026-02

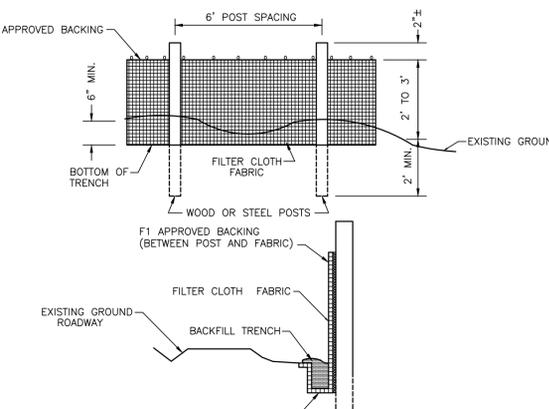
DRAWING NO.
C4.00



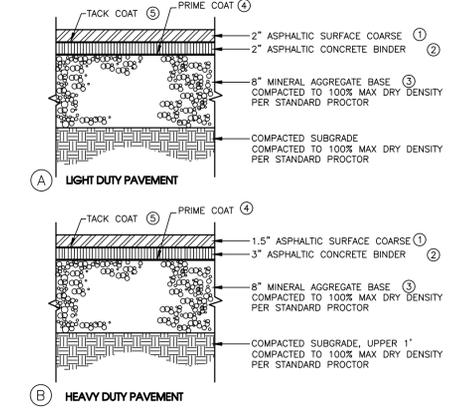
HANDICAP PARKING SIGN DETAIL
SCALE: NONE



GRAVEL CONSTRUCTION ENTRANCE
SCALE: NONE



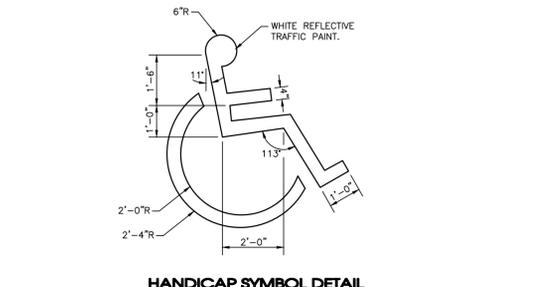
SILT FENCE DETAIL
SCALE: NONE



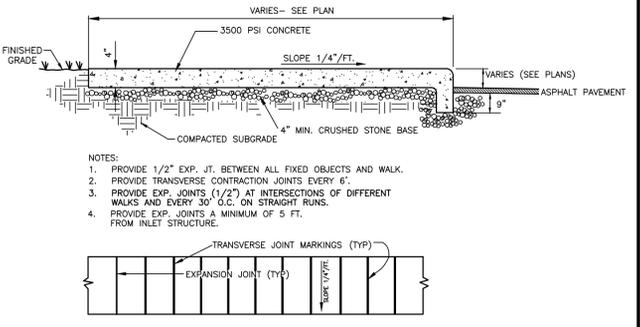
TYPICAL PAVEMENT SECTIONS
SCALE: NONE

- ① BITUMINOUS SURFACE: (1" PER SQ. TD. = 106 LBS.)
DOT 411-01.01 - MINERAL AGGREGATE (ASC) GRADING "E"
DOT 411-01.02 - ASPHALTIC CEMENT (ASC) GRADING "E"
- ② BITUMINOUS BINDER: (1" PER SQ. YD. = 110 LBS.)
DOT 307-03.11 - BITUMINOUS PLANT MIX BASE (HOT MIX)
(BPMB-HM) GRADING "B"
- ③ MINERAL AGGREGATE: (2.03 TON / CU. YD.)
DOT 303-01 - MINERAL AGGREGATE TYPE "A" BASE, GRADING "D"
- ④ PRIME COAT:
DOT 402-01 - BITUMINOUS MATERIAL FOR PRIME COAT (PC)
0.30-0.35 GAL/SQ. YD.
DOT 402-02 - AGGREGATE FOR COVER MATERIAL (PC)
8-12 LB/SQ. YD.
- ⑤ TACK COAT:
DOT 403-01 - BITUMINOUS MATERIAL FOR TACK COAT (TC)
0.02 GAL/SQ. YD.

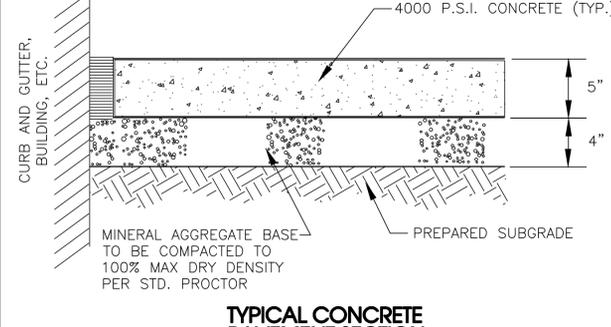
TYPICAL PAVEMENT SECTIONS
SCALE: NONE



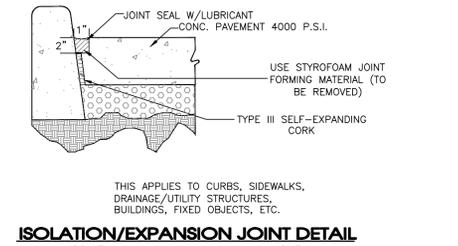
HANDICAP SYMBOL DETAIL
SCALE: NONE



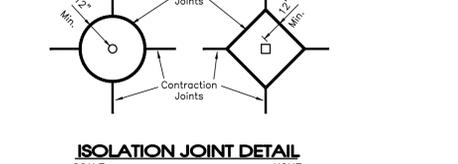
CONCRETE SIDEWALK WITH TURN DOWN CURB
SCALE: NONE



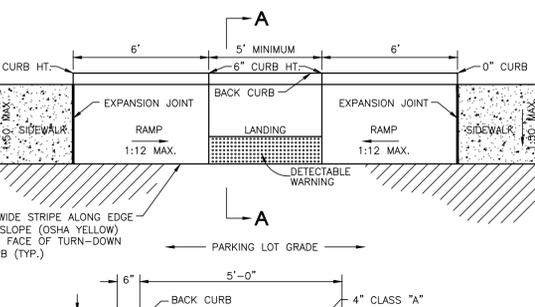
TYPICAL CONCRETE PAVEMENT SECTION
SCALE: NONE



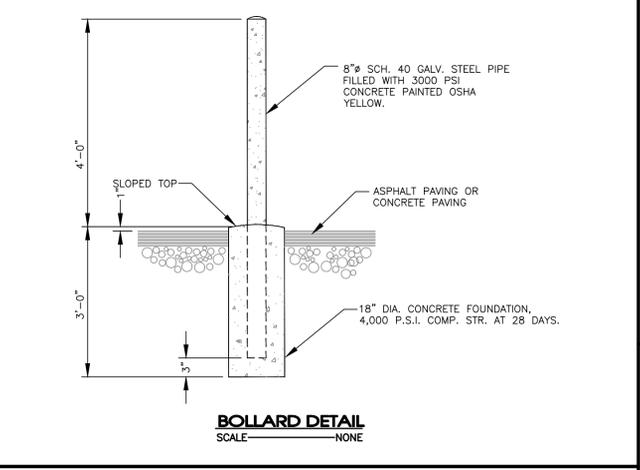
ISOLATION/EXPANSION JOINT DETAIL
SCALE: NONE



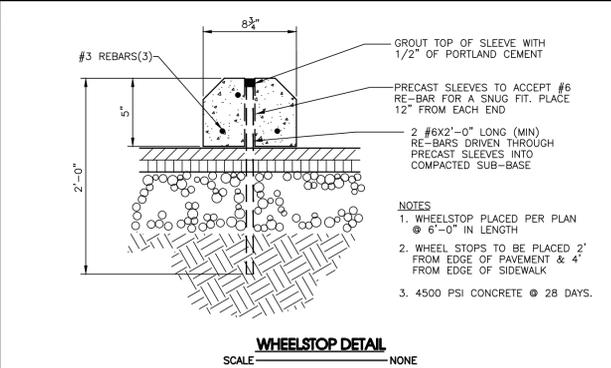
ISOLATION JOINT DETAIL
SCALE: NONE



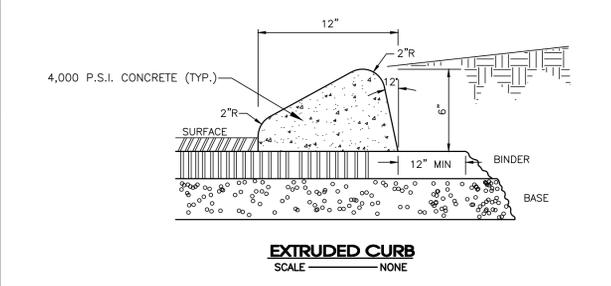
HANDICAP RAMP
SCALE: NONE



BOLLARD DETAIL
SCALE: NONE



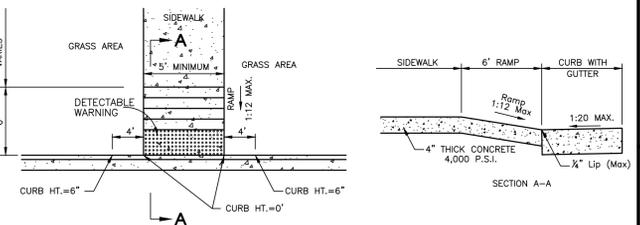
WHEELSTOP DETAIL
SCALE: NONE



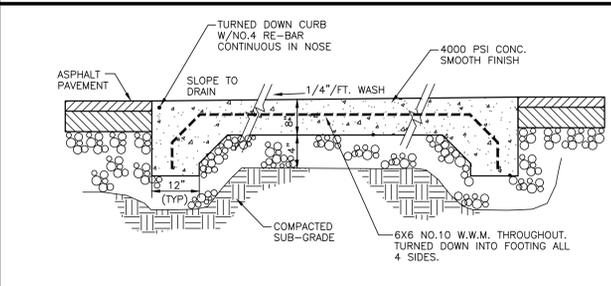
EXTRUDED CURB
SCALE: NONE

- GENERAL NOTES:**
- LANDING SHALL BE FLUSH WITH EDGE OF PAVEMENT.
 - SURFACE TEXTURE OF THE CURB RAMP SHALL BE STABLE, FIRM, AND SLIP RESISTANT. THE SURFACE SHALL BE COARSE BROOMED FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
 - BACK CURB HEIGHT ALONG RAMP SHALL TRANSITION FROM 0 INCHES AT EXPANSION JOINTS TO 6" AT LANDING AND SHALL BE A CONSTANT HEIGHT OF 6" THROUGH LANDING. CROSS-SLOPE (BACK TO FRONT) OF TOP OF BACK CURB SHALL BE THE SAME AS THE SIDEWALK CROSS-SLOPE.
 - RAMP SHALL HAVE A MAXIMUM SLOPE OF 1:12 (VERTICAL:HORIZONTAL) AND SHALL NOT BE REQUIRED TO EXCEED 8 FEET (96 INCHES) IN LENGTH.
 - HANDICAP RAMP SHALL BE CONSTRUCTED WITH DETECTABLE WARNINGS WHICH SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A NOMINAL DIAMETER OF 0.9 INCHES, A NOMINAL HEIGHT OF 0.2 INCHES AND A NOMINAL CENTER-TO-CENTER SPACING OF 2.35 INCHES AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, WHETHER LIGHT-ON-DARK, OR DARK-ON-LIGHT. THE MATERIAL USED SHALL BE YELLOW BRICK PAVERS AND SHALL PROVIDE CONTRAST AND BE AN INTEGRAL PART OF THE WALKING SURFACE. THE PAVERS SHALL COMPLY WITH THE CURRENT REQUIREMENTS SET FORTH IN THE ADA AND BE INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS. THE DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH AND FOR 2 FEET FROM THE BOTTOM OF THE RAMP.
 - A CURB RAMP SHALL HAVE A DETECTABLE WARNING COMPLYING WITH 4.29.2 OF ADA REQUIREMENTS. THE DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH AND DEPTH OF THE CURB RAMP.

HANDICAP RAMP
SCALE: NONE



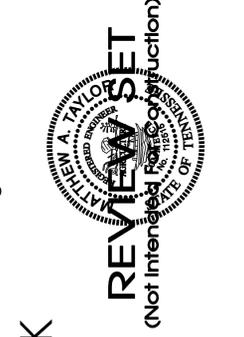
HANDICAP RAMP
SCALE: NONE



DUMPSTER PAD
SCALE: NONE

This Drawing is an instrument of service and is the sole property of the Architect. Any use without the written consent of the Architect is prohibited.

The Architect shall not have control or charge of and shall not be responsible for construction means and methods, deviations, techniques, sequences, or procedures, or for safety precautions and programs in connection with the work, for the acts or omissions of the contractor, subcontractors or any other persons performing any of the work in accordance with the contract documents.



BRANCH OFFICE BANK
MEDICAL CENTER PARKWAY
MURFREESBORO, TN

REDSTONE FEDERAL CREDIT UNION
220 WYNN DRIVE
HUNTSVILLE, AL 35896

PROJECT STATUS	SCHEMATIC DESIGN
ISSUED -	NOT FOR CONSTRUCTION
ISSUE DATE	APRIL 21, 2017
REVISIONS	
No. Description	Date
IDR Comments	1-22-18
FDR Comments	2-20-18

DRAWING TITLE
Details

DRAWN BY: SIA
CHECKED BY: MAT

PROJECT
BRANCH OFFICE BANK

PROJECT NUMBER
165026-02

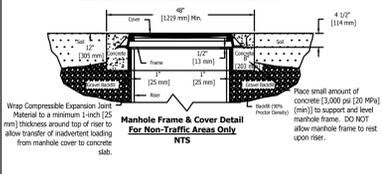
DRAWING NO.
C5.00

SEC, Inc.
SITE ENGINEERING CONSULTANTS
ENGINEERING • SURVEYING • LAND PLANNING
LANDSCAPE ARCHITECTURE

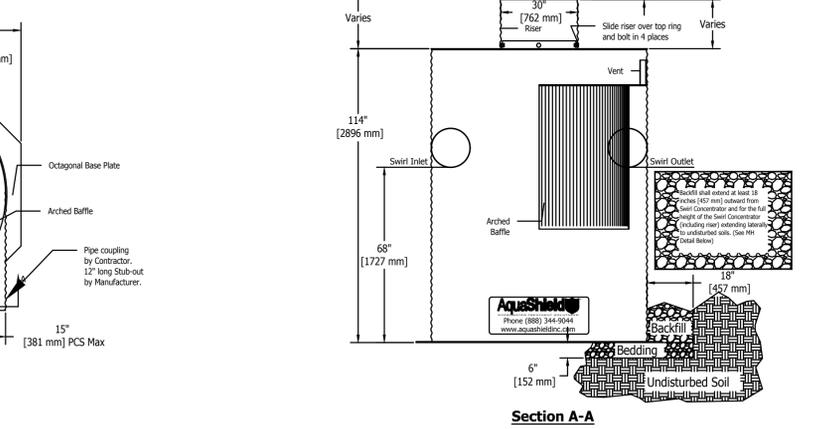
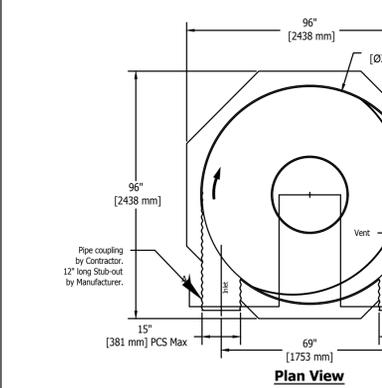
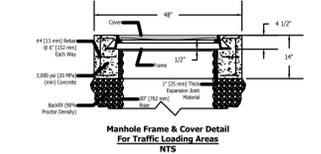
850 MIDDLE TENNESSEE BOULEVARD
MURFREESBORO, TENNESSEE 37129
NO PORTION OF THIS DRAWING MAY BE REPRODUCED WITHOUT THE EXPRESSED WRITTEN CONSENT OF S.E.C. INC.
SEC Project #: 13260

Aqua-Swirl Polymer Concrete Steel (PCS) Stormwater Treatment System

Unless other traffic barriers are present, bollards shall be placed around access riser(s) in non-traffic areas to prevent inadvertent loading by maintenance vehicles.

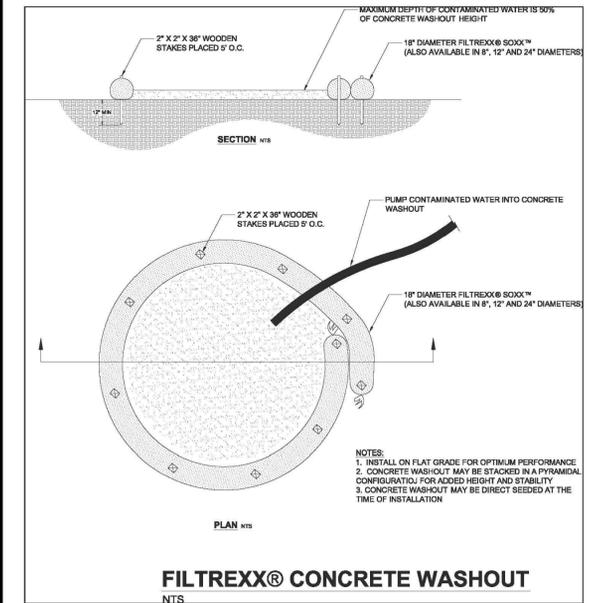
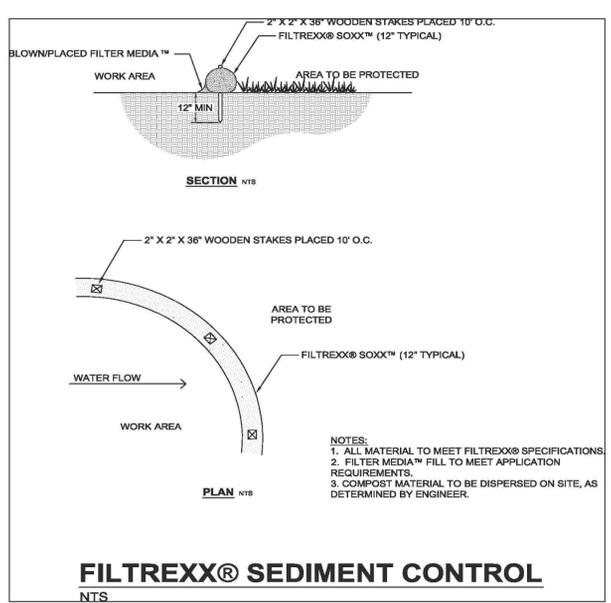
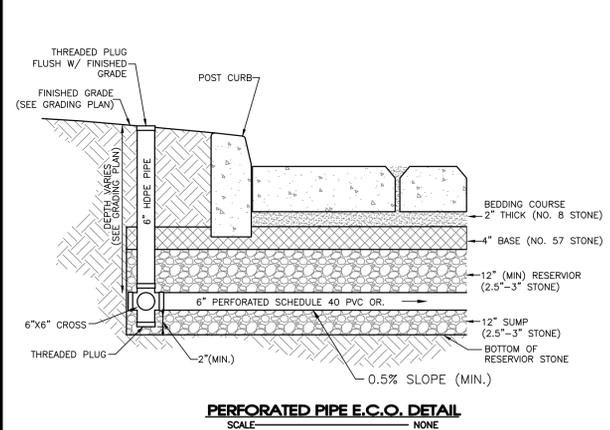
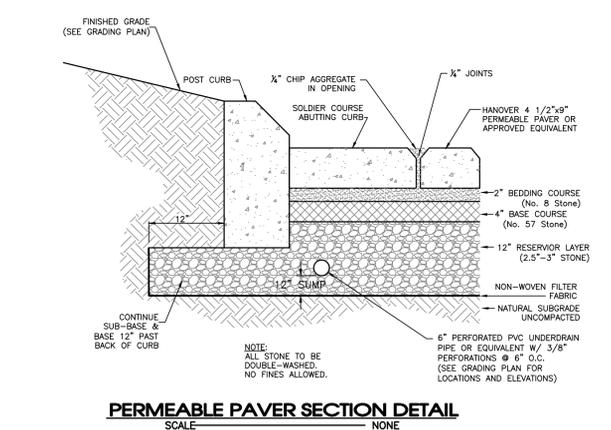


If traffic loading (H-20) is required or anticipated, a 4-foot [1.22 m] diameter, 14-inch [356 mm] thick reinforced concrete pad must be placed over the Stormwater Treatment System Riser to support and level the manhole frame, as shown. The top of riser pipe must be wrapped with compressible expansion joint material to a minimum 1-inch [25 mm] thickness to allow transfer of wheel loads from manhole cover to concrete slab. Manhole cover shall bear on concrete slab and not on riser pipe. The concrete slab shall have a minimum strength of 3,000 psi [20 MPa] and be reinforced with #4 [13 mm] reinforcing steel as shown. Minimum cover reinforcing steel shall be 1-inch [25 mm]. Top of manhole cover and concrete slab shall be level with finish grade.

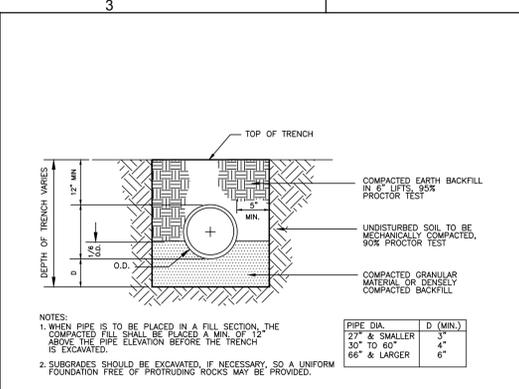


AquaShield
 Document: AS-7 PCS STD
 Drawn By: JCW
 Scale: 1:30
 Date: 01/17/11
 U.S. Patent No. 6524473 and other Patent Pending

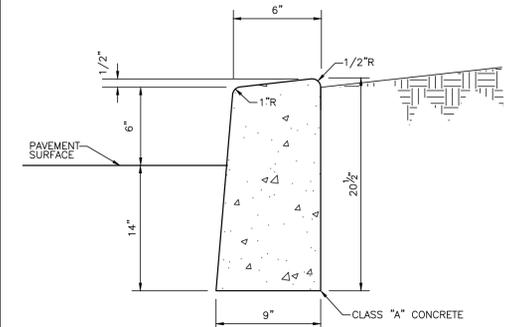
Aqua-Swirl Concentrator Model AS-7 Horseshoe PCS Standard Detail



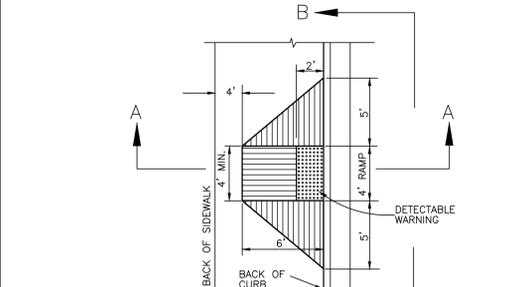
* Please see accompanied Aqua-Swirl specification notes.
 * See Site Plan for actual system orientation.
 * * Orientation may vary from 90°, 180°, or custom angles to meet site conditions.



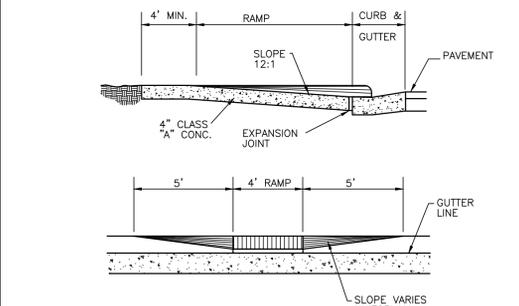
TRENCH BEDDING FOR STORM DRAIN CMP AND RCP ONLY
 SCALE: NONE



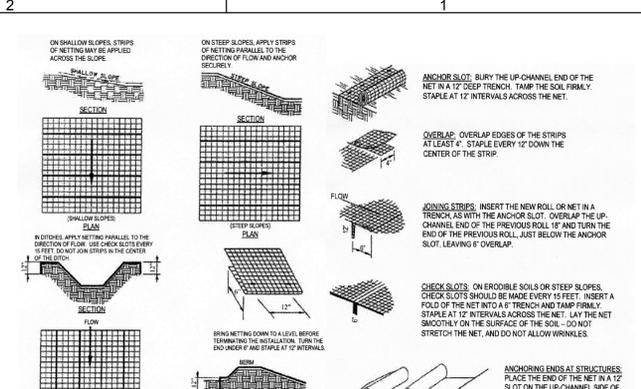
CONCRETE POST CURB
 SCALE: NONE



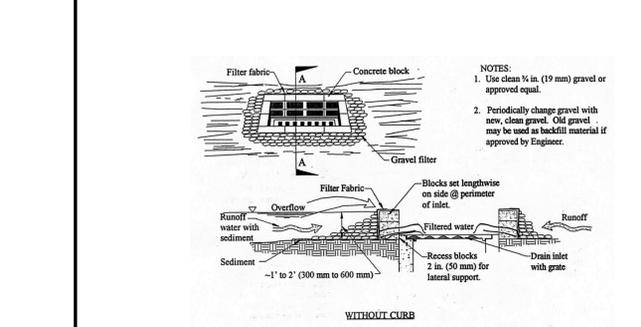
CONCRETE RIBBON CURB
 SCALE: NONE



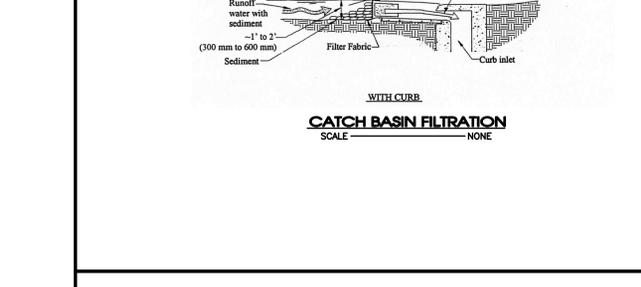
STD. HANDICAP RAMP (SIDE MOUNTABLE)
 SCALE: NONE



ORIENTATION OF NETTING AND MATTING
 Figure TCP-09-2 Mat Anchoring and Layout
 Figure TCP-09-1 Mat Anchoring



CATCH BASIN FILTRATION
 SCALE: NONE



CATCH BASIN FILTRATION
 SCALE: NONE

KPS GROUP
 BAKERS ROW, Suite 100
 60 14th Street South
 Birmingham, AL 35233
 205.251.0125
 www.kpsgroup.com

This Drawing is an instrument of service and is the sole property of the Architect. Any use without the written consent of the Architect is prohibited.

The Architect shall not have control or charge of and shall not be responsible for construction means and methods, deviations, techniques, sequences, or procedures, or for safety precautions and programs in connection with the work, for the acts or omissions of the contractor, subcontractors or any other persons performing any of the work in accordance with the contract documents.

REVIEW SET
 (Not Intended for Construction)

BRANCH OFFICE BANK
 MEDICAL CENTER PARKWAY
 MURFREESBORO, TN

REDSTONE FEDERAL CREDIT UNION
 220 WYNN DRIVE
 HUNTSVILLE, AL 35896

PROJECT STATUS	SCHEMATIC DESIGN
ISSUED -	NOT FOR CONSTRUCTION
ISSUE DATE	APRIL 21, 2017

REVISIONS	Date
No. Description	1-22-18
IDR Comments	2-20-18
FDR Comments	



CONCRETE RIBBON CURB
 SCALE: NONE

SEC, Inc.
 SITE ENGINEERING CONSULTANTS
 ENGINEERING • SURVEYING • LAND PLANNING
 LANDSCAPE ARCHITECTURE
 850 MIDDLE TENNESSEE BOULEVARD
 MURFREESBORO, TENNESSEE 37129
 NO PORTION OF THIS DRAWING MAY BE REPRODUCED WITHOUT THE EXPRESSED WRITTEN CONSENT OF S.E.C. INC.
 SEC Project #: 13260

BRANCH OFFICE BANK

PROJECT NUMBER: 165026-02
 DRAWING NO. **C5.01**

FEDERAL SECURITY AGENCY
SOCIAL SECURITY ADMINISTRATION
BUREAU OF FEDERAL CREDIT UNIONS

Redstone

FEDERAL CREDIT UNION

CHARTER NO. 7544

ORGANIZATION CERTIFICATE

Redstone

FEDERAL CREDIT UNION

7544

Charter No.

TO BUREAU OF FEDERAL CREDIT UNIONS:

We, the undersigned, do hereby associate ourselves as a Federal credit union for the purposes indicated in and in accordance with the provisions of the Federal Credit Union Act, Public Law 467, 73d Congress, 1st Session, entitled, "An Act to establish a Federal Credit Union System, to establish a further market for securities of the United States and to make more available to people of small means credit for provident purposes through a national system of cooperative credit, thereby helping to stabilize the credit structure of the United States"; we hereby request approval of this organization certificate; we agree to comply with the requirements of said Act, with the terms of this organization certificate and with all laws, rules, and regulations now or hereafter applicable to Federal credit unions; and we hereby certify that:

(1) The name of this credit union shall be

Redstone

Federal Credit Union.

(2) This credit union will maintain its office at

Huntsville, Alabama

and will operate in the following territory

Madison County, Alabama

(3) The names and addresses of the subscribers to this certificate and the number of shares subscribed by each are as follows:

NAME	ADDRESS	SHARES
James P. Lutz	423 Eustis Street, Huntsville, Alabama	1
Collier Lewter	400-7th Ave. W., Huntsville, Alabama	1
Gerald L. Davis	704 School Street, Huntsville, Alabama	1
Stanley B. Stephens	208 N. Plymouth Road, Huntsville, Alabama	1
William H. Key	New Hope, Alabama	1
Stuart H. Jones ✓	522 Bonita Circle, Huntsville, Alabama	1
H. W. Penick	701 College Hill Apts., Huntsville, Alabama	1
J. W. Stutts, Jr.	520 Hermitage Street, Huntsville, Alabama	1
Jesse C. Andersen ✓	440 Eustis Street, Huntsville, Alabama	1
Julia Z. Harris	Longwood Court, Huntsville, Alabama	1
Ashford Todd ✓	201 Sunset Drive, Huntsville, Ala.	1

(4) The par value of the shares of this credit union shall be \$5.00.

(5) The field of membership shall be limited to those having the following common bond of association, occupation, or residence: Military personnel and civilian employees of the Ordnance Corps, employees of Thiokol Corporation, and Rohm and Haas Company stationed at Redstone Arsenal in Madison County, Alabama; employees of this credit union; members of their immediate families; and organizations of such persons.

Amended

8-25-52 5-9-67
 12-17-56 6-27-67
 1-9-58 1-15-68
 4-3-58 2-26-69
 7-16-58 12-21-69
 1-7-63 2-9-72
 9-26-63
 5-7-64
 3-13-65
 5-25-65
 12-17-65
 2-3-66
 10-4-66
 12-8-66

(6) The term of this credit union's existence shall be perpetual; *Provided, however,* That upon the finding that this credit union is bankrupt or insolvent or has violated any provision of this organization certificate, of the bylaws, of the Federal Credit Union Act including any amendments thereto or thereof, or of any regulations issued thereunder, this organization certificate may be suspended or revoked under the provisions of Section 16(b) of the Federal Credit Union Act.

(7) This certificate is made to enable the undersigned to avail themselves of the advantages of said Act.

(8) The management of this credit union, the conduct of its affairs, and the powers, duties, and privileges of its directors, officers, committees and membership shall be set forth in the approved bylaws and any approved amendments thereto or thereof.

IN WITNESS WHEREOF we¹ have hereunto subscribed our names this 26th

day of October, 1951

<u>James P. Lewis</u>	<u>H. W. Pernick</u>
<u>Collin Luster</u>	<u>J. M. [unclear]</u>
<u>Gerald L. Davis</u>	<u>Jesse [unclear]</u>
<u>Stanley B. Stephens</u>	<u>Julia Z. Harris</u>
<u>William [unclear]</u>	<u>Asford [unclear]</u>
<u>Stewart [unclear]</u>	

Subscribed before me, an officer competent to administer oaths, at Monteville, Ala. this 26th day of October

1951
Signed Jeannita J. Douglas
Title Notary Public

(Notary public or other competent officer)
My Commission Expires Feb. 17, 1952
¹At least seven signers, none of whom should administer the oath.

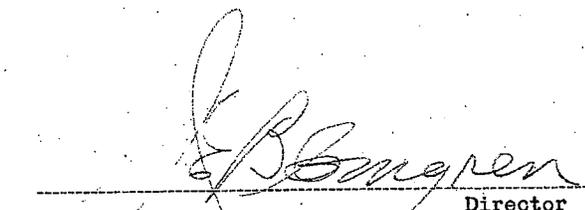
APPROVAL OF ORGANIZATION CERTIFICATE

Pursuant to the provisions of Section 4 and/or Section 16(c) of the Federal Credit Union Act, as amended, and Section 2 of Public Law 813, 80th Congress, 2d Session, the foregoing organization certificate of _____

Redstone

Federal Credit Union

is approved this 28th day of November, 1957



 Director
 Bureau of Federal Credit Unions
 Social Security Administration
 Federal Security Agency

IN WITNESS WHEREOF, the Social Security Administration has here-
unto affixed its seal.