CONSTRUCTION PLANS FOR

CITY OF LONGVIEW, TEXAS

THE GREEN

TPWD PROJECT # 50-000465

GREGG COUNTY

FEBRUARY 2017

CITY COUNCIL
DR. ANDY MACK - MAYOR
ED MOORE, DISTRICT 1 - MAYOR PRO TEM
NONA SNODDY, DISTRICT 2
KASHA WILLIAMS, DISTRICT 3
KRISTEN ISHIHARA, DISTRICT 4
DAVID WRIGHT, DISTRICT 5
STEVE PIRTLE, DISTRICT 6

CITY MANAGER
DAVID WILLARD

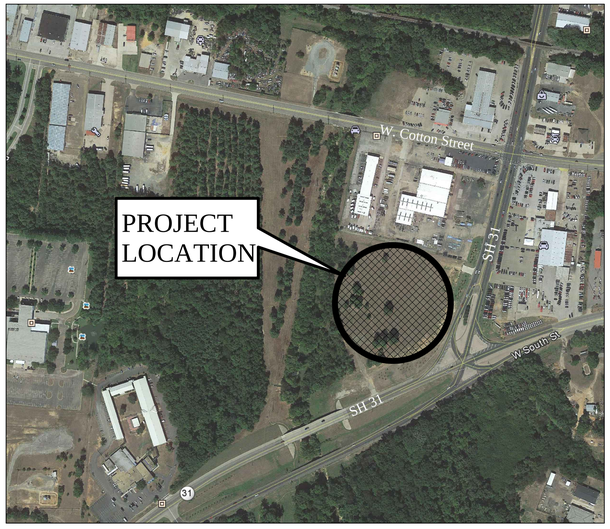
ASSISTANT CITY MANAGER
KEITH BONDS, P.E.

DIRECTOR OF PUBLIC WORKS
ROLIN C. McPHEE, P.E.

DIRECTOR OF PARKS AND RECREATION
SCOTT CARON

COMMUNITY SERVICES DIRECTOR
LAURA HILL

LOCATION



REVIEWED AND FILED BY:

Real East Texas
CITY OF LONGVIEW

SUBMITTED BY:
MHS PLANNING & DESIGN, LLC.

2/24/17

WILLIAM H. SPENCER, P.E. DATE
PROJECT ENGINEER

STATE OF TEXAS
WILLIAM H. SPENCER
107759
LICENSED
PROFESSIONAL ENGINEER
2-24-17

MHS
PLANNING & DESIGN, LLC
212 WEST NINTH STREET
TYLER, TEXAS 75701
903-597-6606
TBPE NO. F-14571

***** STOP! CALL BEFORE YOU DIG! *****

AS REQUIRED BY "THE TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT," TEXAS ONE CALL SYSTEM MUST BE CONTACTED (800-245-4545) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS BEING PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM.

ACCEPTED BY:
KEEP LONGVIEW BEAUTIFUL

KIM DROEGE DATE
EXECUTIVE DIRECTOR

ACCEPTED BY:
CITY OF LONGVIEW

ROLIN C. McPHEE, P.E. DATE
DIRECTOR OF PUBLIC WORKS

TITLE	SHEET NO.
COVER SHEET	C1
SITE PLAN	C2
EXISTING SITE SURVEY	C3
TREE CLEARING AND DEMOLITION PLAN	C4
EROSION CONTROL PLAN	C5
SWPPP NOTES	C6
GRADING PLAN	C7
DRAINAGE PLAN	C8
UTILITY PLAN	C9
PAVING AND HORIZONTAL CONTROL PLAN	C10
TRAIL PLAN/PROFILE	C11 - C14
TRAIL CROSS SECTIONS	C15 - C18
INTERSECTION DETAILS	C19
TRAIL DETAILS	C20
BRIDGE DETAILS	C21
PAVING DETAILS	C22
PAVILION DETAILS	C23
UTILITY DETAILS	C24
SIGNAGE PLAN	C25
SIGNAGE DETAILS	C26
LANDSCAPE PLAN	L1
IRRIGATION PLAN	L2
BIOSWALE DETAILS	L3
NATURE PLAY DETAILS	L4
OUTDOOR EDUCATION NODE	L5
MUSIC GARDEN DETAILS	L6
ARCHITECTURAL	A1
ELECTRICAL	E1-E4
STRUCTURAL	S1-S3

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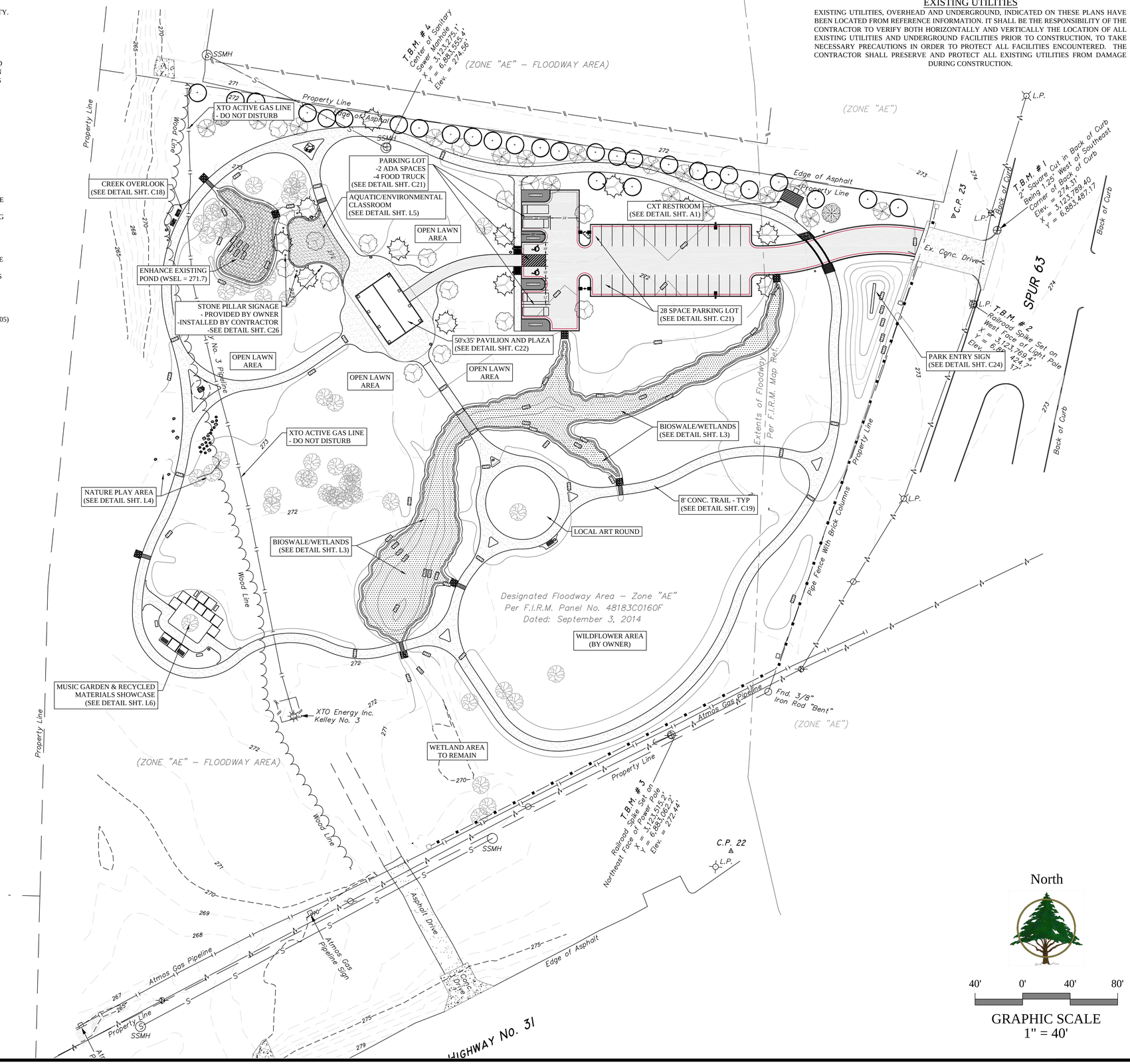

North

40' 0' 40' 80'

GRAPHIC SCALE
1" = 40'

REVISIONS:

212 West Ninth Street
Tyler, Texas 75701
903-597-6606
903-597-0517 Fax
TBPE No. F-14571

STATE OF TEXAS
WILLIAM H. SPENCER
107759
LICENSED PROFESSIONAL ENGINEER
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SITE PLAN
THE GREEN
KEEP LONGVIEW BEAUTIFUL
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DRAWN:	WHS
CHECKED:	MHS
DATE:	FEB 2017
SCALE:	AS SHOWN
JOB NO.:	15-026

LIMITED SCOPE TOPOGRAPHIC SURVEY

THE GREEN
All of a Called 9.412 Acre Tract
Instrument No. 201023728
W. T. Butts Survey, Abstract No. 57
City of Longview, Gregg County, Texas
Client: MHS Planning & Design, LLC.

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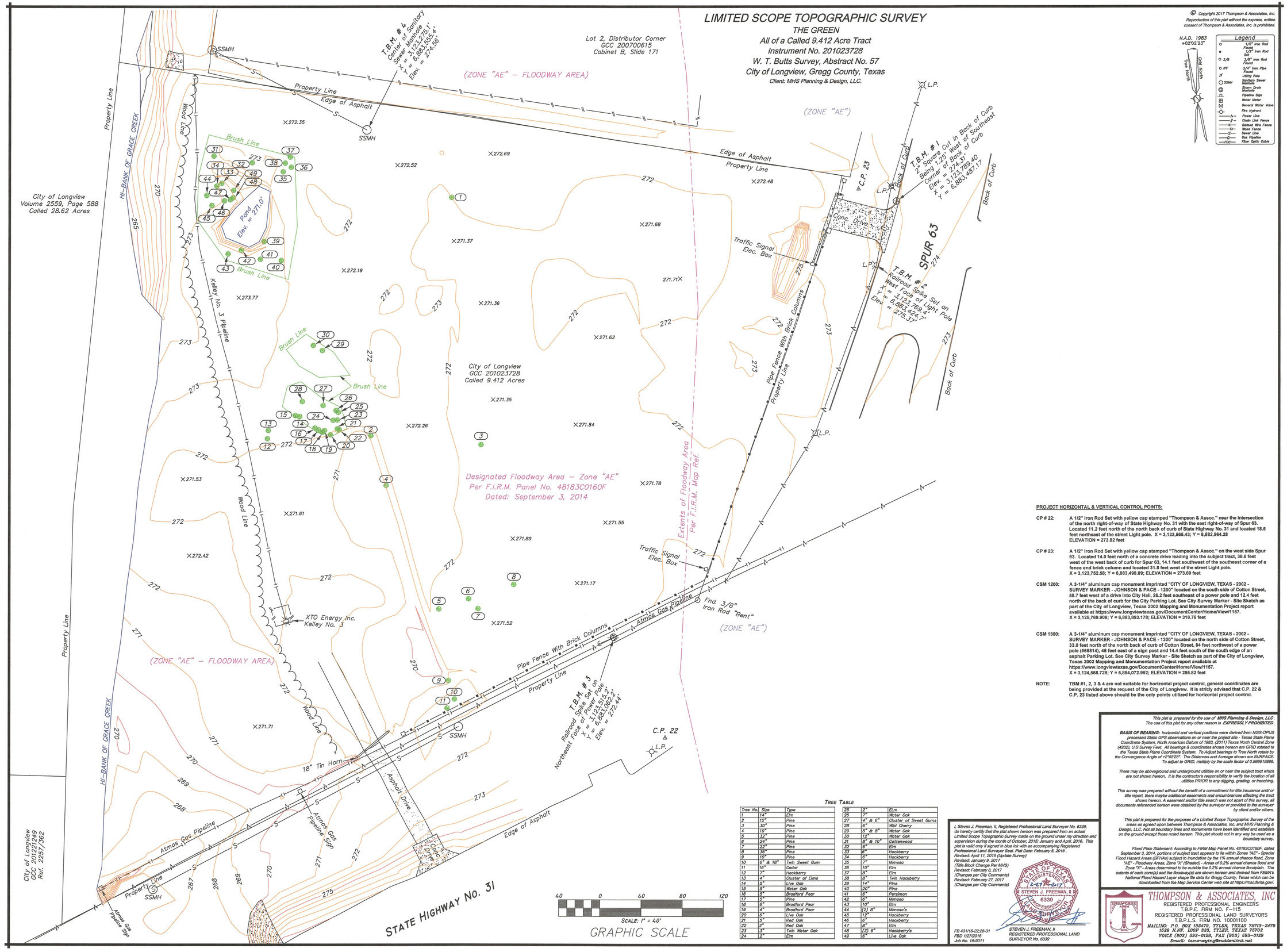

PROJECT HORIZONTAL & VERTICAL CONTROL POINTS:

CP # 22: A 1/2" Iron Rod Set with yellow cap stamped "Thompson & Assoc." near the intersection of the north right-of-way of State Highway No. 31 with the east right-of-way of Spur 63. Located 11.2 feet north of the north back of curb of State Highway No. 31 and located 18.5 feet northeast of the street Light pole. X = 3,123,565.43; Y = 6,882,964.28 ELEVATION = 273.82 feet

CP # 23: A 1/2" Iron Rod Set with yellow cap stamped "Thompson & Assoc." on the west side Spur 63. Located 14.0 feet north of a concrete drive leading into the subject tract, 38.6 feet west of the west back of curb for Spur 63, 14.1 feet southwest of the southeast corner of a fence end brick column and located 31.8 feet west of the street Light pole. X = 3,123,752.58; Y = 6,883,498.89; ELEVATION = 273.69 feet

CSM 1200: A 3-1/4" aluminum cap monument imprinted "CITY OF LONGVIEW, TEXAS - 2002 - SURVEY MARKER - JOHNSON & PACE - 1200" located on the south side of Cotton Street, 58.7 feet west of a drive into City Hall, 26.2 feet southeast of a power pole and 12.4 feet north of the back of curb for the City Parking Lot. See City Survey Marker - Site Sketch as part of the City of Longview, Texas 2002 Mapping and Monumentation Project report available at https://www.longviewtexas.gov/DocumentCenter/HomeView/1157. X = 3,125,769.908; Y = 6,883,893.178; ELEVATION = 318.76 feet

CSM 1300: A 3-1/4" aluminum cap monument imprinted "CITY OF LONGVIEW, TEXAS - 2002 - SURVEY MARKER - JOHNSON & PACE - 1300" located on the north side of Cotton Street, 33.0 feet north of the north back of curb of Cotton Street, 84 feet northwest of a power pole (#66614), 45 feet east of a sign post and 14.4 feet south of the south edge of an asphalt Parking Lot. See City Survey Marker - Site Sketch as part of the City of Longview, Texas 2002 Mapping and Monumentation Project report available at https://www.longviewtexas.gov/DocumentCenter/HomeView/1157. X = 3,124,568.728; Y = 6,884,072.992; ELEVATION = 295.82 feet

NOTE: TBM #1, 2, 3 & 4 are not suitable for horizontal project control, general coordinates are being provided at the request of the City of Longview. It is stricly advised that C.P. 22 & C.P. 23 listed above should be the only points utilized for horizontal project control.

This plat is prepared for the use of MHS Planning & Design, LLC. The use of this plat for any other reason is ***EXPRESSLY PROHIBITED.***

BASIS OF BEARING: *horizontal and vertical positions were derived from NGS-OPUS processed Static GPS observations on or near the project site - Texas State Plane Coordinate System, North American Datum of 1983, (2011) Texas North Central Zone (4202), U.S Survey Feet. All bearings & coordinates shown hereon are GRID rotated to the Texas State Plane Coordinate System. To Adjust bearings to True North rotate by the Convergence Angle of +2°02'23". The Distances and Acreage shown are SURFACE. To adjust to GRID, multiply by the scale factor of 0.999919886.*

There may be aboveground and underground utilities on or near the subject tract which are not shown hereon. It is the contractor's responsibility to verify the location of all utilities PRIOR to any digging, grading, or trenching.

This survey was prepared without the benefit of a commitment for title insurance and/ or title report, there maybe additional easements and encumbrances affecting the tract shown hereon. A easement and/or title search was not apart of this survey, all documents referenced hereon were obtained by the surveyor or provided to the surveyor by client and/or others.

This plat is prepared for the purposes of a Limited Scope Topographic Survey of the areas as agreed upon between Thompson & Associates, Inc. and MHS Planning & Design, LLC. Not all boundary lines and monuments have been identified and establish on the ground except those noted hereon. This plat should not in any way be used as a boundary survey.

Flood Plain Statement: According to FIRM Map Panel No. 48183C0160F, dated September 3, 2014, portions of subject tract appears to lie within Zones "AE" - Special Flood Hazard Areas (SFHAs) subject to inundation by the 1% annual chance flood, Zone "AE" - Floodway Areas, Zone "X" (Shaded) - Areas of 0.2% annual chance flood and Zone "X" - Areas determined to be outside the 0.2% annual chance floodplain. The extents of each zone(s) and the floodway(s) are shown hereon and derived from FEMA's National Flood Hazard Layer shape file data for Gregg County, Texas which can be downloaded from the Map Service Center web site at https://msc.fema.gov/.

TREE TABLE

Tree No.	Size	Type
1	14"	Elm
2	12"	Pine
3	30"	Pine
4	10"	Pine
5	32"	Pine
6	24"	Pine
7	22"	Pine
8	36"	Pine
9	10"	Pine
10	6" & 18"	Twin Sweet Gum
11	16"	Cedar
12	7"	Hackberry
13	4"	Cluster of Elms
14	5"	Live Oak
15	5"	Water Oak
16	5"	Bradford Pear
17	5"	Pine
18	6"	Bradford Pear
19	4"	Bradford Pear
20	6"	Live Oak
21	5"	Red Oak
22	3"	Red Oak
23	3"	Twin Water Oak
24	2"	Elm
25	2"	Elm
26	7"	Water Oak
27	4" & 6"	Cluster of Sweet Gums
28	6"	Wild Cherry
29	5" & 8"	Water Oak
30	12"	Water Oak
31	8" & 10"	Cottonwood
32	6"	Elm
33	6"	Hackberry
34	6"	Hackberry
35	7"	Mimosa
36	10"	Elm
37	8"	Elm
38	6"	Twin Hackberry
39	14"	Pine
40	20"	Pine
41	6"	Persimon
42	6"	Mimosa
43	10"	Elm
44	(2) 8"	Mimosa's
45	12"	Hackberry
46	6"	Hackberry
47	8"	Elm
48	(3) 6"	Hackberry's
49	6"	Live Oak

I, Steven J. Freeman, II, Registered Professional Land Surveyor No. 6339, do hereby certify that the plat shown hereon was prepared from an actual Limited Scope Topographic Survey made on the ground under my direction and supervision during the month of October, 2015; January and April, 2016. This plat is valid only if signed in blue ink with an accompanying Registered Professional Land Surveyor Seal. Plat Date: February 5, 2016 .
Revised: April 11, 2016 (Update Survey)
Revised: January 9, 2017
(Title Block Change Per MHS)
Revised: February 8, 2017
(Changes per City Comments)
Revised: February 27, 2017
(Changes per City Comments)

STATE OF TEXAS REGISTERED 2-27-2017 STEVEN J. FREEMAN, II 6339 PROFESSIONAL LAND SURVEYOR

FB 431/16-22;28-31
FBD 1/27/2016
Job No. 16-3011

STEVEN J. FREEMAN, II
REGISTERED PROFESSIONAL LAND SURVEYOR No. 6339

THOMPSON & ASSOCIATES, INC
REGISTERED PROFESSIONAL ENGINEERS
T.B.P.E. FIRM NO. F-115
REGISTERED PROFESSIONAL LAND SURVEYORS
T.B.P.L.S. FIRM NO. 10001100
MAILING: P.O. BOX 132479, TYLER, TEXAS 75713-2479
1528 N.NW. LOOP 323, TYLER, TEXAS 75702
VOICE (903) 593-0128, FAX (903) 593-0129
Email: tasurveying@suddenlink.net

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KEEP LONGVIEW BEAUTIFUL
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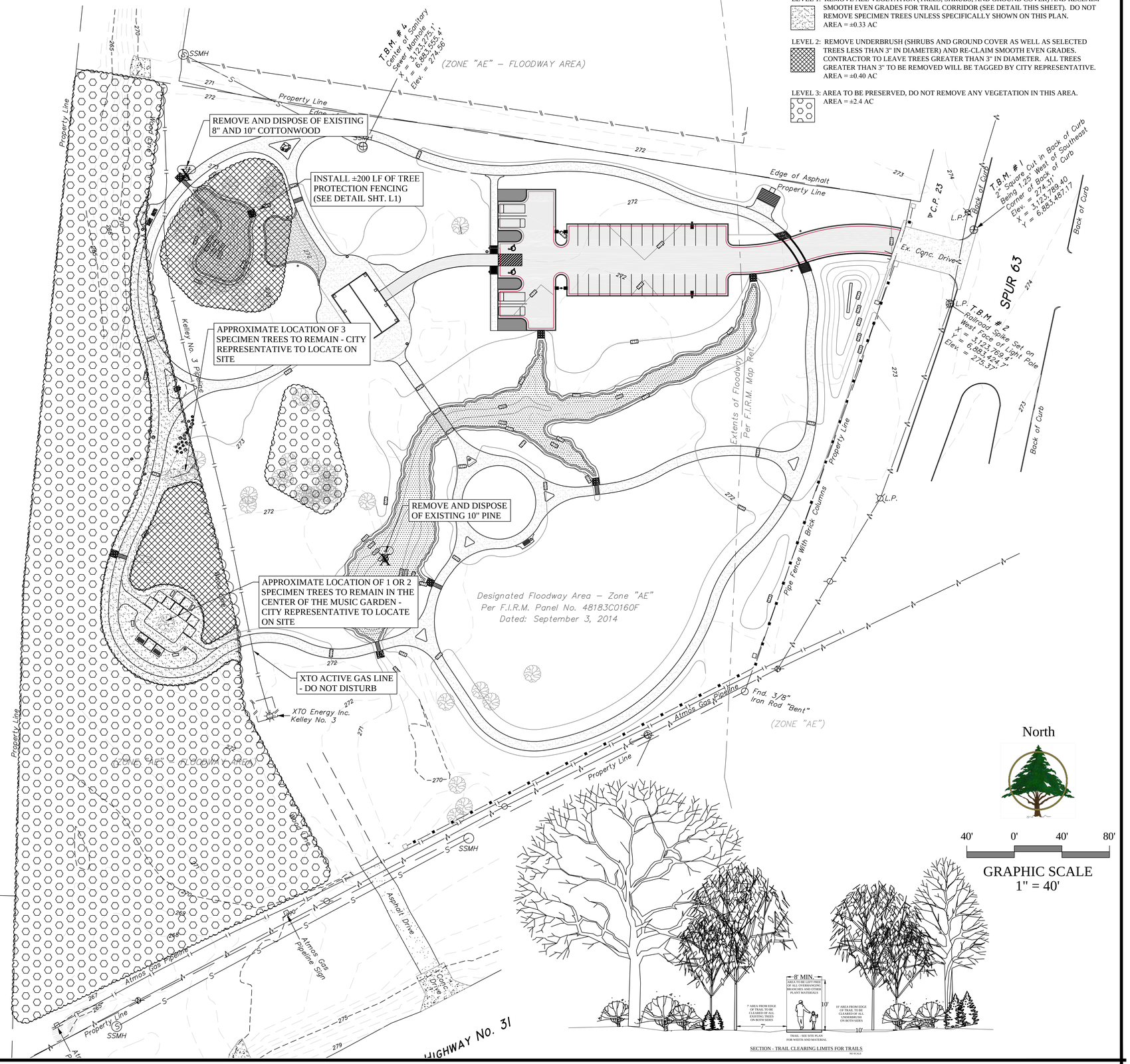

REVISIONS:

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STATE OF TEXAS
WILLIAM H. SPENCER
107759
LICENSED
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DEMOLITION PLAN
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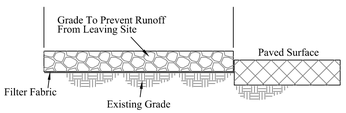
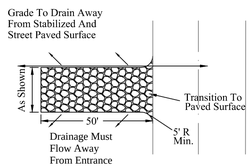


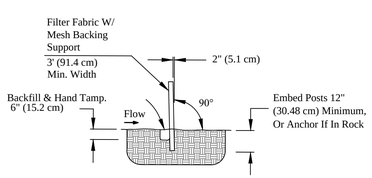
PROFILE VIEW
NTS



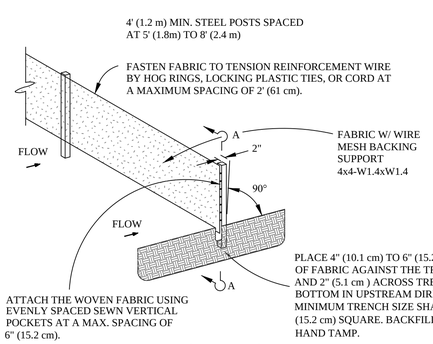
PLAN VIEW
STABILIZED CONSTRUCTION ENTRANCE
NTS

CONSTRUCTION ENTRANCE NOTES

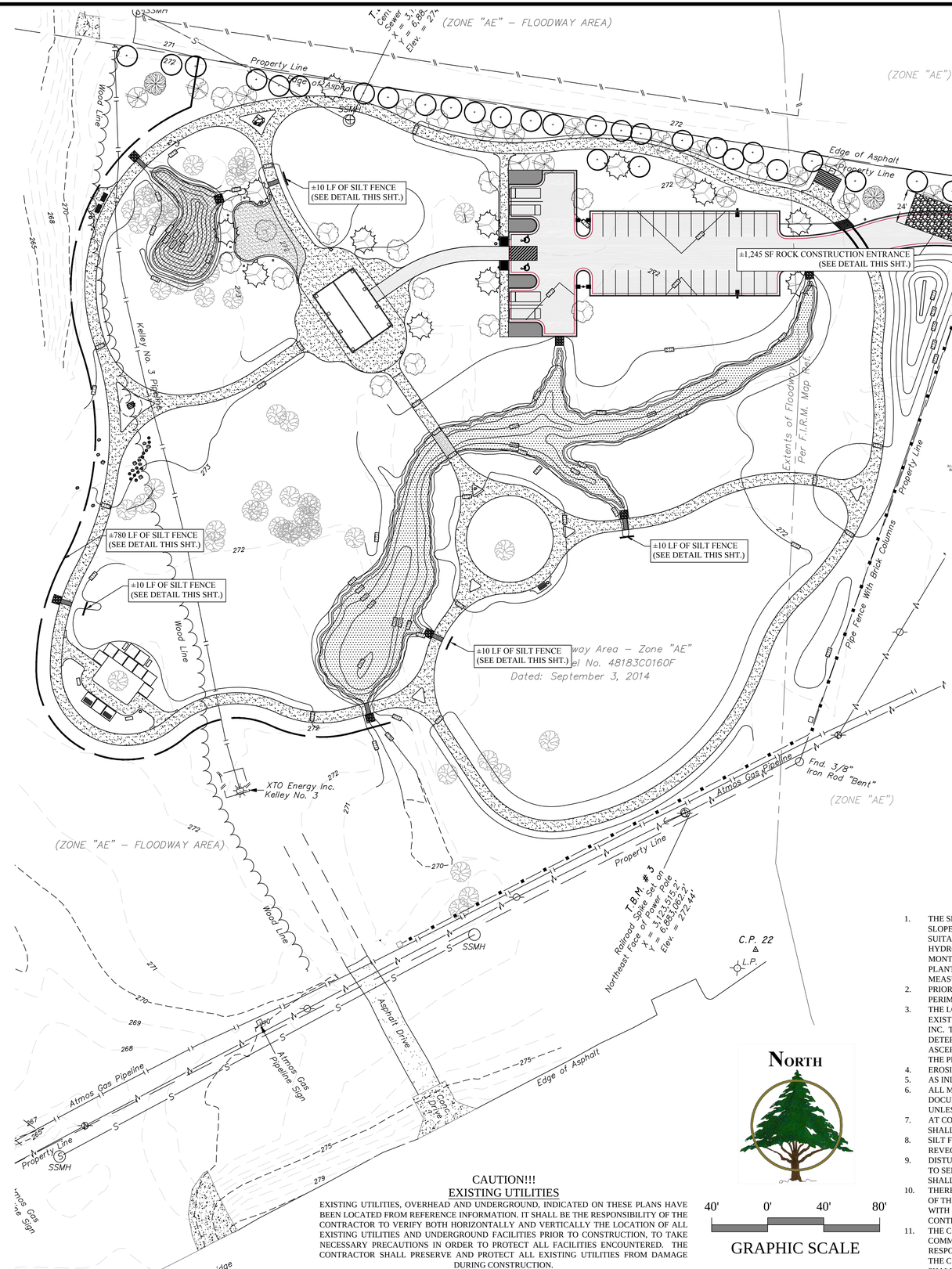
1. STONE SHALL BE 3 TO 5 INCH DIAMETER CRUSHED ROCK OR ACCEPTABLE CRUSHED PORTLAND CEMENT CONCRETE..
2. WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE, WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE USING APPROVED METHODS.
3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES MUST BE REMOVED IMMEDIATELY.
4. THE ENTRANCE MUST BE PROPERLY GRADED, OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.



SECTION A-A
NTS



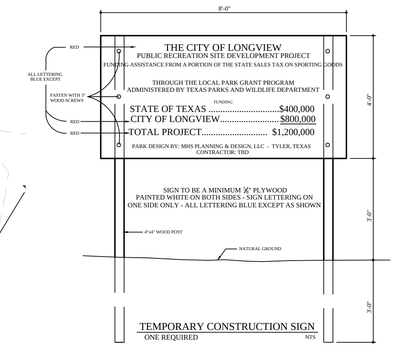
SILT FENCE
NTS



CAUTION!!!
EXISTING UTILITIES

EXISTING UTILITIES, OVERHEAD AND UNDERGROUND, INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BOTH HORIZONTALLY AND VERTICALLY THE LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION, TO TAKE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION.

40' 0' 40' 80'
GRAPHIC SCALE



TEMPORARY CONSTRUCTION SIGN
ONE REQUIRED NTS

*** NOTICE TO CONTRACTORS ***

THE CONTRACTOR SHALL NOTIFY THE CONSULTANT IMMEDIATELY, IN WRITING, OF ANY DISCREPANCIES OR OMISSIONS TO THE TOPOGRAPHIC INFORMATION. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR CONFIRMING THE LOCATION (HORIZONTAL/VERTICAL) OF ANY BURIED CABLES, CONDUITS, PIPES, AND STRUCTURES (STORM SEWER, SANITARY SEWER, WATER, GAS, TELEVISION, TELEPHONE, ETC.) WHICH IMPACT THE CONSTRUCTION SITE. THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND CONSULTANT IF ANY DISCREPANCIES ARE FOUND BETWEEN THE ACTUAL CONDITIONS VERSUS THE DATA CONTAINED IN THE CONSTRUCTION PLANS. ANY COSTS INCURRED AS THE RESULT OF NOT CONFIRMING THE ACTUAL LOCATION (HORIZONTAL/VERTICAL) OF SAID CABLES, CONDUITS, PIPES, AND STRUCTURES SHALL BE BORNE BY THE CONTRACTOR. ADDITIONALLY, THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND CONSULTANT IF ANY ERRORS OR DISCREPANCIES ARE FOUND ON THE CONSTRUCTION DOCUMENTS (PS&E), WHICH NEGATIVELY IMPACT THE PROJECT. CONSULTANT AND OWNER SHALL BE INDEMNIFIED OF PROBLEMS AND/OR COST WHICH MAY RESULT FROM CONTRACTOR'S FAILURE TO NOTIFY CONSULTANT AND OWNER.

*** STOP! CALL BEFORE YOU DIG! ***

AS REQUIRED BY "THE TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT," TEXAS ONE CALL SYSTEM MUST BE CONTACTED (800-245-4545) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS BEING PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM.

GENERAL NOTES

1. THE SPECIFIC PLANT MATERIALS PROPOSED TO PROTECT FILL AND EXCAVATED SLOPES SHALL BE AS INDICATED ON THE PLANS. PLANT MATERIALS MUST BE SUITABLE FOR USE UNDER LOCAL CLIMATE AND SOIL CONDITIONS. IN GENERAL, HYDROSEEDING OR SODDING BERMUDA GRASS IS ACCEPTABLE DURING THE SUMMER MONTHS (MAY 1ST TO AUGUST 31ST). WINTER RYE OR FESCUE GRASS MAY BE PLANTED DURING TIMES OTHER THAN THE SUMMER MONTHS AS A TEMPORARY MEASURE UNTIL SUCH TIME AS THE PERMANENT PLANTING CAN BE MADE.
2. PRIOR TO COMMENCING ANY CONSTRUCTION, A CONSTRUCTION ENTRANCE AND PERIMETER SILT FENCE SHALL BE INSTALLED AT THE LOCATION(S) SHOWN.
3. THE LOCATION OF ALL UTILITIES LOCATED ON THESE PLANS ARE TAKEN FROM EXISTING PUBLIC RECORDS OR PROVIDED BY EVERETT GRIFFITH, JR. & ASSOCIATES INC. THE EXACT LOCATION AND ELEVATION OF ALL PUBLIC UTILITIES MUST BE DETERMINED BY THE CONTRACTOR. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT.
4. EROSION CONTROL SHALL BE REQUIRED DURING ALL PHASES OF CONSTRUCTION.
5. AS INLETS ARE COMPLETED, TEMPORARY SEDIMENT BARRIERS SHALL BE INSTALLED.
6. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CONTRACT DOCUMENTS, TECHNICAL SPECIFICATIONS, OR CITY STANDARDS FOR THE PROJECT UNLESS OTHERWISE INDICATED IN THIS PLAN SET.
7. AT COMPLETION OF THE PAVING AND FINAL GRADING, THE DISTURBED AREA(S) SHALL BE REVEGETATED IN ACCORDANCE WITH THE PLANS.
8. SILT FENCE AND INLET SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL REVEGETATION HAS BEEN COMPLETED. .
9. DISTURBED AREAS THAT ARE SEEDED OR SODDED SHALL BE CHECKED PERIODICALLY TO SEE THAT GRASS COVERAGE IS PROPERLY MAINTAINED. DISTURBED AREAS SHALL BE WATERED, FERTILIZED, AND RE-SEEDED OR RE-SODDED, IF NECESSARY.
10. THERE IS TO BE ONE CONCRETE WASH-OUT PIT LOCATED ON THE SITE. THE LOCATION OF THIS WASH-OUT PIT IS TO BE DETERMINED BY THE CONTRACTOR AND CONFIRMED WITH MHS PLANNING AND DESIGN. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY DISPOSE OF ALL EXCESS CONCRETE MATERIAL.
11. THE CONTRACTOR WILL BE REQUIRED TO FILE A NOTICE OF INTENT (NOI) PRIOR TO COMMENCEMENT OF CONSTRUCTION AND KEEP THE SWPPP ON SITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MONITOR THE SITE EROSION THROUGHOUT THE CONSTRUCTION PROCESS. ONCE THE PROJECT IS COMPLETED, THE CONTRACTOR SHALL FILE THE REQUIRED NOTICE OF TERMINATION (NOT) WITH THE EPA.

REVISIONS:

212 West Ninth Street
Tyler, Texas 75701
903-597-6606
903-597-0517 Fax
TBPE No. F-14571

STATE OF TEXAS
WILLIAM H. SPENCER
107759
LICENSED
PROFESSIONAL ENGINEER
2-24-17

MHS
PLANNING & DESIGN, LLC

EROSION CONTROL PLAN
THE GREEN
KEEP LONGVIEW BEAUTIFUL
CITY OF LONGVIEW, TEXAS

DRAWN:	WHS
CHECKED:	MHS
DATE:	FEB 2017
SCALE:	AS SHOWN
JOB NO.:	15-026

SANDBLASTING WASTE MANAGEMENT

DESCRIPTION

The objective of the management program is to minimize the potential of storm water quality degradation from sandblasting activities at construction sites. The key issues in this program are prudent handling and storage of sandblast media, dust suppression, and proper collection and disposal of spent media. It is not the intent of this program to outline all of the worker safety issues pertinent to this practice. Safety issues should be addressed by construction safety programs as well as local, state, and and federal regulation. utilized at sites in which Sandblasting waste is present.

INSTALLATION/APPLICATION CRITERIA

Since the media consists of fine abrasive granules, it can be easily transported by running water. Sandblasting activities typically create a significant dust problem which must be contained and collected to prevent off-site migration problem which must be contained and collected to to prevent off-site migration or fines.

Operational Procedures

Use only inert, non-degradable sandblast media.
Use appropriate equipment for the job, do not over-blast.
Wherever possible, blast in a downward direction.
Install a wind sock or other wind direction instrument.
Cease blasting activities in high winds or if wind direction could transport grit to drainage facilities.
Install dust shielding around sandblasting areas.
Collect and dispose of all spent sandblast grit, use dust containment fabrics and dust collection hoppers and barrels.
Non-hazardous sandblast grit may be disposed in permitted construction debris landfills or permitted sanitary landfills.
If sandblast media cannot be fully contained, construct sediment traps downstream from blasting area where appropriate.
Use sand fencing where appropriate in areas where blast media cannot be fully contained.
If necessary, install misting equipment to remove sandblast grit from the air - prevent runoff from misting operations from entering drainage systems.
Use vacuum grit collection systems where possible.
Keep records of sandblasting materials, procedures, and weather conditions on a daily basis.
Take all reasonable precautions to ensure that sandblasting grit is contained and kept away from drainage structures.

Educational Issues

Educate all on-site employees of potential dangers to humans and the environment from sandblast grit.
Instruct all on-site employees of the potential hazardous nature of sandblast grit and possible symptoms of overexposure to sandblast grit.
Instruct operators of sandblasting equipment on safety procedures and personal protection equipment.
Instruct operators on proper procedures regarding storage, handling, and containment of sandblast grit.
Instruct operators to recognize unfavorable weather conditions regarding sandblasting activities.
Instruct operators and supervisors on current local, state, and federal federal regulations regarding fugitive dust and hazardous waste from sandblast grit.
Have weekly meetings with operators to discuss and reinforce proper operational procedures.
Establish a continuing education program to indoctrinate new employees.

Material Handling Recommendations

Sandblast media should always be stored under cover away from drainage structures.
Ensure that stored media or grit is not subject to transport by wind.
Ensure that all sandblasting equipment as well as storage containers comply with local, state, and federal regulations.
Refer to Hazardous Waste BMP fact sheet if sandblast grit is known or or suspected to contain hazardous components.
Capture and treat runoff which comes into contact with sandblasting material or waste.
Foreman and/or construction supervisor should monitor all sandblasting activities and safety procedures.

Quality Assurance

Educate, and if necessary, discipline workers who violate procedures.
Take all reasonable precautions to ensure that sandblast grit is not transported off-site or into drainage facilities.

Requirements

Education and awareness program for all employees regarding control of sandblasting and potential dangers to humans and the environment.
Operator and supervisor education program for those directly involved in sandblasting activities - instructions on material handling, proper equipment operation, personal protective equipment, fugitive dust control, record keeping and reporting, fugitive dust control, record keeping and reporting.
Proper sandblast equipment for the job.
Site-specific fugitive dust control and containment equipment.
Site-specific fugitive dust control procedure.
Compliance by supervisors and workers.

Costs

Minimal cost for training and monitoring.
Potential for significant cost for containment procedures on large jobs.
Potential for significant costs associated with cleanup, correction and remediation if containment occurs.

LIMITATIONS

Site specific solutions to sandblasting problems may be required.
Sandblasting operations on structures known to contain hazardous materials require special procedures not specifically outlined above including professional hazardous waste specialists.
Where hazardous materials are known or suspected, a site assessment and remediation plan may be necessary.
This management program is one part of a comprehensive construction site waste management program.

HAZARDOUS WASTE MANAGEMENT

DESCRIPTION

The hazardous waste management BMP addresses the problem of storm water Polluted with hazardous waste through spills or other forms of contact. The Objective of the Management Program is to minimize the potential of Storm water contamination from common construction site hazardous wastes Through appropriate recognition, handling, storage, and disposal practices.

It is not the intent of this Management Program to supersede or replace normal site assessment and remediation procedures. Significant spills and/or contamination warrant immediate response by trained professionals.
Suspected job-site contamination should be immediately reported to regulatory Authorities and protective actions taken. The General Permit requires reporting Of significant spills to the National Response Center (NRC) at (800)424-8802.

PRIMARY USE

These management practices along with applicable OSHA and EPA guidelines Should be incorporated at all construction sites which use or generate Hazardous wastes. Many wastes such as fuel, oil, grease, fertilizer, and pesticide Are present at most construction sites.

INSTALLATION, APPLICATION AND DISPOSAL CRITERIA

The hazardous waste management techniques presented here are based on Proper recognition, handling, and disposal practices by construction workers And supervisors. Key elements of the management program are education, Proper disposal practices, as well as provisions for safe storage and disposal. Following are lists describing the targeted materials and recommended procedures:

Targeted Hazardous Waste Materials

Paints
Solvents
Stains
Wood preservatives
Cutting oils
Greases
Roofing tar
Pesticides
Fuel and lube oils
Lead based paints (Demolition)

Storage Procedures

Wherever possible, minimize use of hazardous materials.
Minimize generation of hazardous wastes on the job-site.
Seagregate potentially hazardous waste from non-hazardous Construction site debris.
Designate a foreman or supervisor to oversee hazardous materials Handling procedures.
Keep liquid or semi-liquid hazardous waste in appropriate containers (closed drums or similar) and under cover.
Other enclosed trash container that limits contact with rain and.
Store waste materials away from drainage ditches, swales, and catch basins.
Use containment berms in fueling and maintenance areas and where the potential for spills is high.
Ensure that adequate hazardous waste storage volume is available.
Ensure that hazardous waste collection containers are conveniently located.
Do not allow potentially hazardous waste materials to accumulate on the ground.
Enforce Hazardous waste handling and storage procedures.
Clearly mark on all hazardous waste containers which materials are acceptable for the container.

Disposal Procedures

Regularly schedule hazardous waste removal to minimize on-site storage.
Use only reputable, licensed hazardous waste haulers.

Education

Instruct workers in identification of hazardous waste
Educate workers of potential dangers to humans and the environment from hazardous wastes
Instruct workers on safety procedures for common construction site hazardous wastes
Educate all workers on hazardous waste storage and disposal procedures
Have regular meetings to discuss and reinforce identification, handling and disposal procedures (incorporate in regular safety seminars).
Establish a continuing education program to indoctrinate new employees

Quality Assurance

Foreman and/or construction supervisor shall monitor on-site hazardous waste storage and disposal procedures.
Educate, and if necessary, discipline workers who violate procedures.
Ensure that the hazardous waste disposal contractor is reputable and licensed.

Requirements

Job-site waste handling and disposal education and awareness program
Commitment by management to implement hazardous waste management practices.
Compliance by workers.
Sufficient and appropriate hazardous waste storage containers.
Timely removal of stored hazardous waste materials.

Costs

Possible modest cost impact for additional hazardous storage containers.
Small cost impact for training and monitoring
Potential cost impact for hazardous waste collection and disposal by licensed hauler - actual cost depends
on type of material and volume.

LIMITATIONS

This practice is not intended to address site-assessments and pre-existing contamination.
Major contamination, large spills and other serious hazardous waste incidents require immediate response from specialists.
Demolition activities and potential pre-existing materials, such as asbestos, are not addressed by this program. Site specific information on plans is necessary.
Contaminated soils are not addressed.
One part of a comprehensive construction site waste management program.

SOLID WASTE MANAGEMENT

DESCRIPTION

Large volumes of solid waste are often generated at construction sites including: packaging, pallets, wood waste, concrete waste, soil, electrical wiring, cuttings, and a variety of other materials. The solid waste management practice lists techniques to minimize the potential of storm water contamination from solid waste through appropriate storage and disposal practices.

PRIMARY USE

These practices should be a part of all construction practices. By limiting the trash and debris on site, storm water quality is improved along with reduced clean up requirements at the completion of the project.

APPLICATIONS

The solid waste management practice for construction sites is based on proper storage and disposal practices by construction workers and supervisors. Key elements of the program are education and modification of improper disposal habits. Cooperation and vigilance is required on the part of supervisors and workers to ensure that the recommendations and procedures are followed.
Following are lists describing the targeted materials and recommended procedures:

Targeted Solid Waste Materials

Paper and cardboard containers
Plastic packaging
Styrofoam packing and forms
Insulation materials (non-hazardous)
Wood pallets
Wood cuttings
Pipe and electrical cuttings
Concrete, brick, and mortar waste
Shingle cuttings and waste
Roofing tar
Steel (cuttings, nails, rust residue)
Gypsum board cuttings and waste
Sheathing cuttings and waste
Miscellaneous cutting and waste
Food waste
Demolition waste

Storage Procedures

Wherever possible, minimize production of solid waste materials.
Designate a foreman or supervisor to oversee and enforce proper solid waste procedures.
Instruct construction workers in proper solid waste procedures.
Segregate potentially hazardous waste from non-hazardous construction site debris.
Keep solid waste materials under cover in either a closed dumpster or other enclosed trash container that limits contact with rain and runoff.
Store waste materials away from drainage ditches, swales and catch basins.
Do not allow trash containers to overflow.
Do not allow waste materials to accumulate on the ground.
Prohibit littering by workers and visitors.
Police site daily for litter and debris.
Enforce solid waste handling and storage procedures.

Disposal Procedures

If feasible, segregate recyclable wastes from non-recyclable waste materials and dispose of properly.
General construction debris may be hauled to a licensed construction debris landfill (typically less expensive than a sanitary landfill).
Use waste facilities approved by local jurisdiction.
Runoff which comes into contact with unprotected waste shall be directed into structural treatment such as silt fence to remove debris.

Education

Educate all workers on solid waste storage and disposal procedures.
Instruct workers in identification of solid waste and hazardous waste.
Have regular meetings to discuss and reinforce disposal procedures (incorporate in regular safety seminars).
Clearly mark on all solid waste containers which materials are acceptable.

Quality Control

Foreman and/or construction supervisor shall monitor on-site solid waste storage and disposal procedures.
Discipline workers who repeatedly violate procedures.

Requirements

Jobsite waste handling and disposal education and awareness program
Commitment by management to implement and enforce Solid Waste Management Program.
Compliance by workers.
Sufficient and appropriate waste storage containers.
Timely removal of stored solid waste materials.
Possible modest cost impact for additional waste storage containers.
Small cost impact for training and monitoring
Minimal overall cost impact.

LIMITATIONS

Only addresses non-hazardous solid waste.
One part of a comprehensive construction site management program.

CONCRETE WASTE MANAGEMENT

DESCRIPTION

Concrete waste at construction sites comes in two forms; 1) excess fresh concrete mix including truck and equipment washing, and 2) concrete dust and concrete debris resulting from demolition. Both forms have the potential to impact water quality through storm water runoff contact with the waste.

PRIMARY USE

Concrete waste is present at most construction sites. This BMP should be utilized at sites in which concrete waste is present

APPLICATIONS

A number of water quality parameters can be affected by introduction of concrete - especially fresh concrete. Concrete affects the pH of runoff, causing significant chemical changes in water bodies and harming aquatic life.
Suspended solids in the form of both cement and aggregate dust are also Generated from both fresh and demolished concrete waste:

Current Unacceptable Waste Concrete Disposal Practices

Dumping in vacant areas on the job-site
Illicit dumping off-jobsite
Dumping into ditches or drainage facilities

Recommended Disposal Practices

Avoid unacceptable dumping practices listed above.
Develop predetermined, safe concrete disposal areas
Provide a washout area with a minimum of 6 cubic feet of containment area volume for every 10 cubic yards of concrete poured.
Never dump waste concrete illicitly or without property owners knowledge and consent.
Treat runoff from storage area through the use of structural controls as required.

Education

Drivers and equipment operators should be instructed on proper disposal and equipment washing practices (see above).
Supervisors must be made aware of the potential environmental consequences of improperly handling concrete waste.

Enforcement

The construction site manager or foreman must ensure that employees and pre-mix companies follow proper procedures for concrete disposal and equipment washing.
Employees violating disposal or equipment cleaning directives must be reeducated or disciplined if necessary.

Demolition Practices

Monitor weather and wind direction to ensure concrete dust is not entering drainage structures and surface waters.
Where appropriate, construct sediment traps or other types of sediment detention devices downstream of demolition activities.

Requirements

Use predetermined disposal for waste concrete.
Prohibit dumping waste concrete anywhere but predetermined areas.
Assign predetermined truck and equipment washing areas.
Educate drivers and operators on proper disposal and equipment cleaning procedures.

Costs

Minimal cost impact for training and monitoring.
Concrete disposal cost depends on availability and distance to suitable disposal areas.
Additional costs involved in equipment washing could be significant.

LIMITATIONS

This concrete waste management program is one part of a comprehensive construction
site management program.

REVISIONS:

212 West Ninth Street
Tyler, Texas 75701
903-597-6606
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TBPE No. F-14571

STATE OF TEXAS
WILLIAM H. SPENCER
107759
LICENSED
PROFESSIONAL ENGINEER
2-24-17

MHS
PLANNING & DESIGN, LLC

SWPPP NOTES

THE GREEN
KEEP LONGVIEW BEAUTIFUL
CITY OF LONGVIEW, TEXAS

DRAWN:	WHS
CHECKED:	MHS
DATE:	FEB 2017
SCALE:	AS SHOWN
JOB NO.:	15-026

GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF LONGVIEW PLANS AND SPECIFICATIONS, EXCEPT AS NOTED HEREIN AND APPROVED BY THE CITY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY STANDARDS, TEXAS STATE LAW, AND O.S.H.A. STANDARDS FOR ALL EXCAVATION IN EXCESS OF FIVE FEET IN DEPTH.
3. THE LOCATION OF ALL UTILITIES LOCATED ON THESE PLANS ARE TAKEN FROM EXISTING PUBLIC RECORDS OR PROVIDED BY THOMPSON & ASSOCIATES INC. THE EXACT LOCATION AND ELEVATION OF ALL PUBLIC UTILITIES MUST BE DETERMINED BY THE CONTRACTOR. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT.
4. EROSION CONTROL SHALL BE REQUIRED DURING ALL PHASES OF CONSTRUCTION.
5. ALL PROPOSED GRADES IN LANDSCAPE AREAS ARE FINISHED GRADE ELEVATIONS. CONTRACTOR TO ALLOW FOR CONCRETE, SEEDING OR SODDING OF THESE AREAS.
6. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CONTRACT DOCUMENTS, TECHNICAL SPECIFICATIONS, OR CITY STANDARDS FOR THE PROJECT UNLESS OTHERWISE INDICATED IN THIS PLAN SET.
7. DURING CONSTRUCTION OF THESE PUBLIC IMPROVEMENTS, ANY DEVIATION FROM THESE SPECIFICATIONS WILL REQUIRE APPROVAL FROM THE OWNER OR HIS DESIGNEE BEFORE ANY CONSTRUCTION INVOLVING THAT DECISION COMMENCES. ASSUMPTIONS ABOUT WHAT THESE DECISIONS MIGHT BE THAT ARE MADE DURING THE BIDDING PROCESS WILL HAVE NOT BEARING ON THE DECISION.
8. ALL FACILITIES SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE CITY OF LONGVIEW STANDARD CONSTRUCTION DETAILS.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES DURING THE CONSTRUCTION OF THE PROJECT. ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC. MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING CONSTRUCTION OF THE PAVING FOR THIS DEVELOPMENT.
10. DRAINAGE SHOULD BE MAINTAINED AWAY FROM THE FOUNDATIONS, BOTH DURING AND AFTER CONSTRUCTION.
11. BACKFILL FOR UTILITY LINES SHALL CONFORM TO THE CITY'S STANDARD DETAIL. UTILITY DITCHES SHOULD BE VISUALLY INSPECTED DURING THE EXCAVATION PROCESS TO ENSURE THAT UNDESIRABLE FILL IS NOT USED.
12. IF ROCK IS ENCOUNTERED IN THE TRENCH, ROCK SPOILS SHALL NOT BE USED IN THE UPPER 1.5' OF THE TRENCH.
13. ALL SIDEWALK AND CROSSWALK SLOPES SHALL CONFORM TO ADA REQUIREMENTS AS FOLLOWS:
    1:20 LONGITUDINAL (ALONG THE WALK) MAX
    1:50 TRAVERSE (ALONG THE WALK) MAX
14. ALL PAVING AND EARTHWORK OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS PER THE GEOTECHNICAL INVESTIGATION (PROJECT NO. LE16-005) BY ALLIANCE GEOTECHNICAL GROUP (FEBRUARY 2016).

REFERENCE BENCHMARK:

THE BOUNDARY SURVEY, TOPOGRAPHIC SURVEY, BENCHMARKS AND LOCATION OF ALL EXISTING UTILITIES, STRUCTURES, TREES AND IMPROVEMENTS WERE PROVIDED BY THOMPSON & ASSOCIATES INC AND ARE ON THE CITY OF LONGVIEW'S STANDARD BENCHMARK SYSTEM.

T.B.M. #1 - 2" SQUARE CUT IN BACK OF CURB BEING 1.25' WEST OF SOUTHEAST CORNER OF BACK OF CURB
ELEVATION = 274.31'
X = 3,123,789.40
Y = 6,883,487.17

T.B.M. #2 - RAILROAD SPIKE SET ON WEST FACE OF LIGHT POLE
ELEVATION = 275.37'
X = 3,123,769.4'
Y = 6,883,424.7'

T.B.M. #3 - RAILROAD SPIKE SET ON NORTHEAST FACE OF POWER POLE
ELEVATION = 272.44'
X = 3,123,515.2'
Y = 6,883,062.2'

T.B.M. #4 - SOUTH RIM OF SANITARY SEWER MANHOLE
ELEVATION = 274.55'
X = 3,123,275.1'
Y = 6,883,555.4'

LEGEND

- 525.8' — PROPOSED SPOT ELEVATION
- 528 — PROPOSED CONTOUR
- 535 — EXISTING CONTOUR
- ±528.2'(ex.) — EXISTING SPOT ELEVATION
- DIRECTION OF FLOW
- CURB AND GUTTER
- NO CURB
- TC = 529.5' — TC = TOP OF CURB
- G = 529.0' — G = GUTTER
- FL = 521.2' — FL = FLOW LINE
- TI = 526.6' — TI = TOP OF INLET

VOLUME CALCULATIONS:

Base Surface: Existing Surface
Comparison Surface: Proposed Surface

Cut Factor	1.050	
Fill Factor	1.000	
Cut volume (adjusted)	2792.8	CY
Fill volume (adjusted)	2946.3	CY
FILL MATERIAL =	153.3	CY

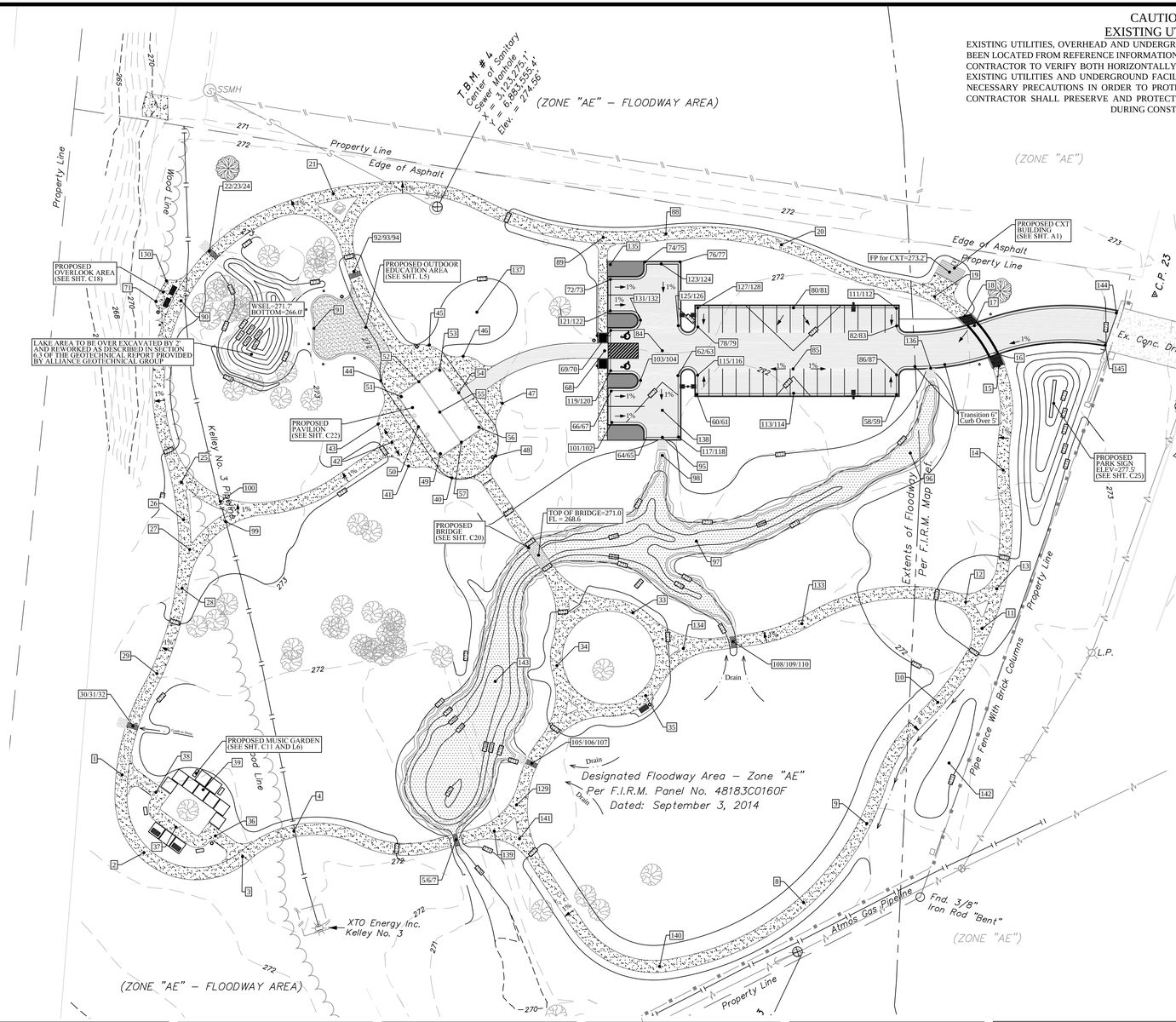
IMPORT MATERIAL TO SITE:

6" Concrete Material (Parking) =	330	CY
5" Concrete Material (Trail) =	458	CY
Pavilion Foundation Material =	21	CY
Decomposed Granite Material =	20	CY
OVERALL IMPORT =	829	CY

APPROXIMATELY 676 CY OF EXCESS DIRT SHALL BE EXPORTED TO THE LONGVIEW ARBORETUM BY CONTRACTOR UNDER THE DIRECTION OF CITY REPRESENTATIVE

CAUTION!!!
EXISTING UTILITIES

EXISTING UTILITIES, OVERHEAD AND UNDERGROUND, INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BOTH HORIZONTALLY AND VERTICALLY THE LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION, TO TAKE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION.



Point Table				
Point #	Elevation	Northing	Easting	Description
121	273.20	6883488.07	3123390.93	TC
122	272.70	6883488.07	3123391.11	G
123	273.30	6883519.21	3123424.71	TC
124	272.80	6883519.21	3123424.71	G
125	272.90	6883477.88	3123436.00	TC
126	272.40	6883477.88	3123436.00	G
127	273.20	6883490.11	3123448.64	TC
128	272.70	6883490.12	3123448.63	G
129	271.60	6883159.85	3123328.60	TP
130	272.50	6883508.00	3123095.96	TP
131	272.90	6883481.88	3123410.94	TC
132	272.40	6883481.88	3123410.94	G
133	271.50	6883280.21	3123518.19	TP
134	271.80	6883263.71	3123439.37	TP
135	273.30	6883518.87	3123390.88	TP
136	272.00	6883450.01	3123603.81	TP
137	273.30	6883487.23	3123302.23	TP
138	271.80	6883421.98	3123425.43	TP
139	271.60	6883142.43	3123313.69	TP
140	272.30	6883052.46	3123423.65	TP
141	271.80	6883137.35	3123330.55	TP
142	273.50	6883187.65	3123615.98	TP
143	267.90	6883241.99	3123314.52	TP
144	273.20	6883486.76	3123726.92	TP
145	273.00	6883465.50	3123719.74	TP

Point Table				
Point #	Elevation	Northing	Easting	Description
1	272.20	6883179.76	3123066.50	TP
2	272.20	6883128.11	3123080.97	TP
3	272.20	6883125.61	3123146.48	TP
4	272.60	6883142.34	3123180.60	TP
5	270.90	6883136.71	3123288.41	TI
6	270.00	6883136.69	3123288.39	FL (IN)
7	269.90	6883136.70	3123288.41	FL (OUT)
8	272.50	6883094.91	3123519.31	TP
9	272.20	6883147.38	3123561.29	TP
10	272.70	6883228.00	3123608.50	TP
11	273.20	6883276.95	3123637.92	TP
12	273.20	6883294.53	3123627.03	TP
13	273.20	6883303.38	3123647.61	TP
14	272.90	6883382.26	3123651.86	TP
15	272.80	6883451.41	3123649.14	TP
16	272.30	6883460.07	3123645.43	TP
17	272.50	6883478.23	3123632.82	TP
18	273.00	6883484.72	3123626.48	TP
19	273.10	6883497.63	3123606.37	TP
20	273.60	6883532.02	3123504.55	TP

Point Table				
Point #	Elevation	Northing	Easting	Description
21	272.90	6883565.99	3123206.88	TP
22	272.50	6883528.02	3123124.43	TI
23	271.60	6883528.02	3123124.43	FL (IN)
24	271.50	6883528.02	3123124.43	FL (OUT)
25	273.15	6883374.14	3123105.87	TP
26	273.30	6883349.31	3123107.28	TP
27	273.15	6883329.52	3123111.38	TP
28	273.20	6883303.68	3123106.32	TP
29	272.60	6883247.07	3123089.60	TP
30	272.10	6883212.17	3123073.66	TI
31	271.20	6883212.17	3123073.66	FL (IN)
32	271.10	6883212.17	3123073.66	FL (OUT)
33	272.30	6883287.54	3123405.78	TP
34	272.30	6883252.38	3123355.39	TP
35	272.30	6883232.45	3123414.37	TP
36	272.30	6883139.21	3123128.46	TP
37	272.40	6883144.97	3123102.22	TP
38	272.30	6883168.22	3123088.89	TP
39	272.40	6883169.89	3123120.34	TP
40	273.00	6883377.05	3123285.66	TP

Point Table				
Point #	Elevation	Northing	Easting	Description
41	272.80	6883384.86	3123256.73	TP
42	272.90	6883400.78	3123245.80	TP
43	272.80	6883412.83	3123236.53	TP
44	273.00	6883441.67	3123238.37	TP
45	273.00	6883465.42	3123270.59	TP
46	272.90	6883457.91	3123293.08	TP
47	272.90	6883426.59	3123319.11	TP
48	273.00	6883391.60	3123314.74	TP
49	273.10	6883393.11	3123277.91	TP
50	273.10	6883411.02	3123263.33	TP
51	273.10	6883431.07	3123251.90	TP
52	273.30	6883440.99	3123263.67	TP
53	273.10	6883448.70	3123277.53	TP
54	273.10	6883433.66	3123289.64	TP
55	273.30	6883420.79	3123277.55	TP
56	273.10	6883410.73	3123303.61	TP
57	273.30	6883400.88	3123291.93	TP
58	272.90	6883432.49	3123581.11	TC
59	272.40	6883432.49	3123581.11	G
60	273.00	6883432.54	3123448.38	TC

Point Table				
Point #	Elevation	Northing	Easting	Description
61	272.50	6883432.54	3123448.38	G
62	272.60	6883445.37	3123435.93	TC
63	272.10	6883445.37	3123435.93	G
64	272.20	6883404.21	3123414.93	TC
65	271.70	6883404.21	3123414.93	G
66	272.80	6883434.74	3123391.44	TC
67	272.30	6883434.74	3123391.44	G
68	272.50	6883461.49	3123387.08	TP
69	273.10	6883475.11	3123391.11	TC
70	272.60	6883475.11	3123391.11	G
71	272.50	6883494.35	3123088.75	TP
72	273.40	6883509.03	3123390.93	TC
73	272.90	6883509.03	3123390.93	G
74	273.40	6883520.43	3123413.80	TC
75	272.90	6883520.43	3123413.80	G
76	273.40	6883520.60	3123437.22	TC
77	272.90	6883520.60	3123437.22	G
78	273.00	6883477.88	3123448.93	TC
79	272.50	6883477.88	3123448.93	G
80	273.80	6883490.11	3123512.60	TC

Point Table				
Point #	Elevation	Northing	Easting	Description
81	273.30	6883490.10	3123512.59	G
82	275.90	6883478.07	3123581.08	TC
83	272.40	6883478.07	3123581.08	G
84	272.20	6883461.57	3123425.43	TP
85	272.90	6883449.48	3123512.30	TP
86	272.70	6883445.52	3123581.20	TC
87	272.20	6883445.52	3123581.20	G
88	273.20	6883539.11	3123427.84	TP
89	273.60	6883536.87	3123386.18	TP
90	272.70	6883494.83	3123105.54	TP
91	272.80	6883476.42	3123193.91	TP
92	273.10	6883514.27	3123220.46	TI
93	272.20	6883514.27	3123220.46	FL (IN)
94	272.10	6883514.27	3123220.46	FL (OUT)
95	271.60	6883404.07	3123425.43	G
96	272.35	6883393.59	3123590.23	TP
97	269.30	6883335.07	3123448.09	TP
98	271.40	6883392.03	3123425.43	TP
99	273.50	6883348.06	3123135.25	TP
100	273.50	6883361.30	3123131.84	TP

Point Table				
Point #	Elevation	Northing	Easting	Description
101	272.60	6883413.94	3123391.88	TC
102	272.10	6883413.94	3123391.88	G
103	272.60	6883441.88	3123410.94	TC
104	272.10	6883441.88	3123410.94	G
105	271.20	6883187.31	3123338.68	TI
106	270.30	6883187.31	3123338.68	FL (IN)
107	270.20	6883187.31	3123338.68	FL (OUT)
108	271.20	6883268.34	3123472.47	TI
109	270.30	6883268.34	3123472.47	FL (IN)
110	270.20	6883268.34	3123472.47	FL (OUT)
111	273.10	6883489.91	3123580.99	TC
112	272.60	6883489.92	3123580.99	G
113	273.60	6883433.30	3123512.69	TC
114	273.10	6883433.30	3123512.69	G
115	272.80	6883445.37	3123448.93	TC
116	272.30	6883445.28	3123449.15	G
117	272.20	6883404.13	3123435.98	TC
118	271.70	6883404.14	3123436.20	G
119	272.90	6883448.32	3123391.06	TC
120	272.40	6883448.33	3123391.07	G

NORTH

40' 0' 40' 80'

GRAPHIC SCALE
1" = 40'

REVISIONS:

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TBPE No. F-14571

STATE OF TEXAS
WILLIAM H. SPENCER
107759
LICENSED
2-24-17

MHS
PLANNING & DESIGN, LLC

GRADING PLAN
THE GREEN
KEEP LONGVIEW BEAUTIFUL
CITY OF LONGVIEW, TEXAS

DRAWN: WHS
CHECKED: MHS
DATE: FEB 2017
SCALE: AS SHOWN
JOB NO.: 15-026

CAUTION!!!
EXISTING UTILITIES

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GENERAL NOTES

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2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY STANDARDS, TEXAS STATE LAW, AND O.S.H.A. STANDARDS FOR ALL EXCAVATION IN EXCESS OF FIVE FEET IN DEPTH.
3. THE LOCATION OF ALL UTILITIES LOCATED ON THESE PLANS ARE TAKEN FROM EXISTING PUBLIC RECORDS OR PROVIDED BY THOMPSON & ASSOCIATES INC. THE EXACT LOCATION AND ELEVATION OF ALL PUBLIC UTILITIES MUST BE DETERMINED BY THE CONTRACTOR. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT.
4. EROSION CONTROL SHALL BE REQUIRED DURING ALL PHASES OF CONSTRUCTION.
5. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CONTRACT DOCUMENTS, TECHNICAL SPECIFICATIONS, OR CITY STANDARDS FOR THE PROJECT UNLESS OTHERWISE INDICATED IN THIS PLAN SET.
6. ALL FACILITIES IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE CITY OF LONGVIEW STANDARD CONSTRUCTION DETAILS.
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES DURING THE CONSTRUCTION OF THE PROJECT. ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC. MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING CONSTRUCTION OF THE PAVING FOR THIS DEVELOPMENT.
8. BACKFILL FOR UTILITY LINES SHOULD BE CAREFULLY PLACED SO THAT THEY WILL BE STABLE. WHERE UTILITY LINES PASS THROUGH THE PARKING LOT, THE TOP 6" SHOULD BE COMPACTED SIMILARLY TO THE REMAINDER OF THE LOT. UTILITY DITCHES SHOULD BE VISUALLY INSPECTED DURING THE EXCAVATION PROCESS TO ENSURE THAT UNDESIRABLE FILL IS NOT USED.
9. IF ROCK IS ENCOUNTERED IN THE TRENCH, ROCK SPOILS SHALL NOT BE USED IN THE UPPER 1.5' OF THE TRENCH. THE UPPER 1.5' OF THE TRENCH IS TO BE BACKFILLED ONLY WITH QUALITY TOPSOIL.

REFERENCE BENCHMARK:

THE BOUNDARY SURVEY, TOPOGRAPHIC SURVEY, BENCHMARKS AND LOCATION OF ALL EXISTING UTILITIES, STRUCTURES, TREES AND IMPROVEMENTS WERE PROVIDED BY THOMPSON & ASSOCIATES INC AND ARE ON THE CITY OF LONGVIEW'S STANDARD BENCHMARK SYSTEM.

T.B.M. #1 - 2" SQUARE CUT IN BACK OF CURB BEING 1.25' WEST OF SOUTHEAST CORNER OF BACK OF CURB
ELEVATION = 274.31'
X = 3,123,789.40
Y = 6,883,487.17

T.B.M. #2 - RAILROAD SPIKE SET ON WEST FACE OF LIGHT POLE
ELEVATION = 275.37'
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T.B.M. #3 - RAILROAD SPIKE SET ON NORTHEAST FACE OF POWER POLE
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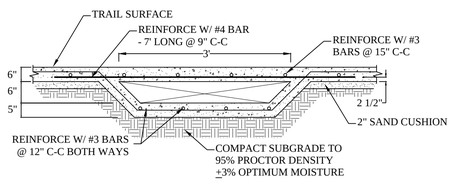
T.B.M. #4 - SOUTH RIM OF SANITARY SEWER MANHOLE
ELEVATION = 274.55'
X = 3,123,275.1'
Y = 6,883,555.4'

1.96 / 4.69
AREA (ac)
FLOW (cfs)

Q = cIA

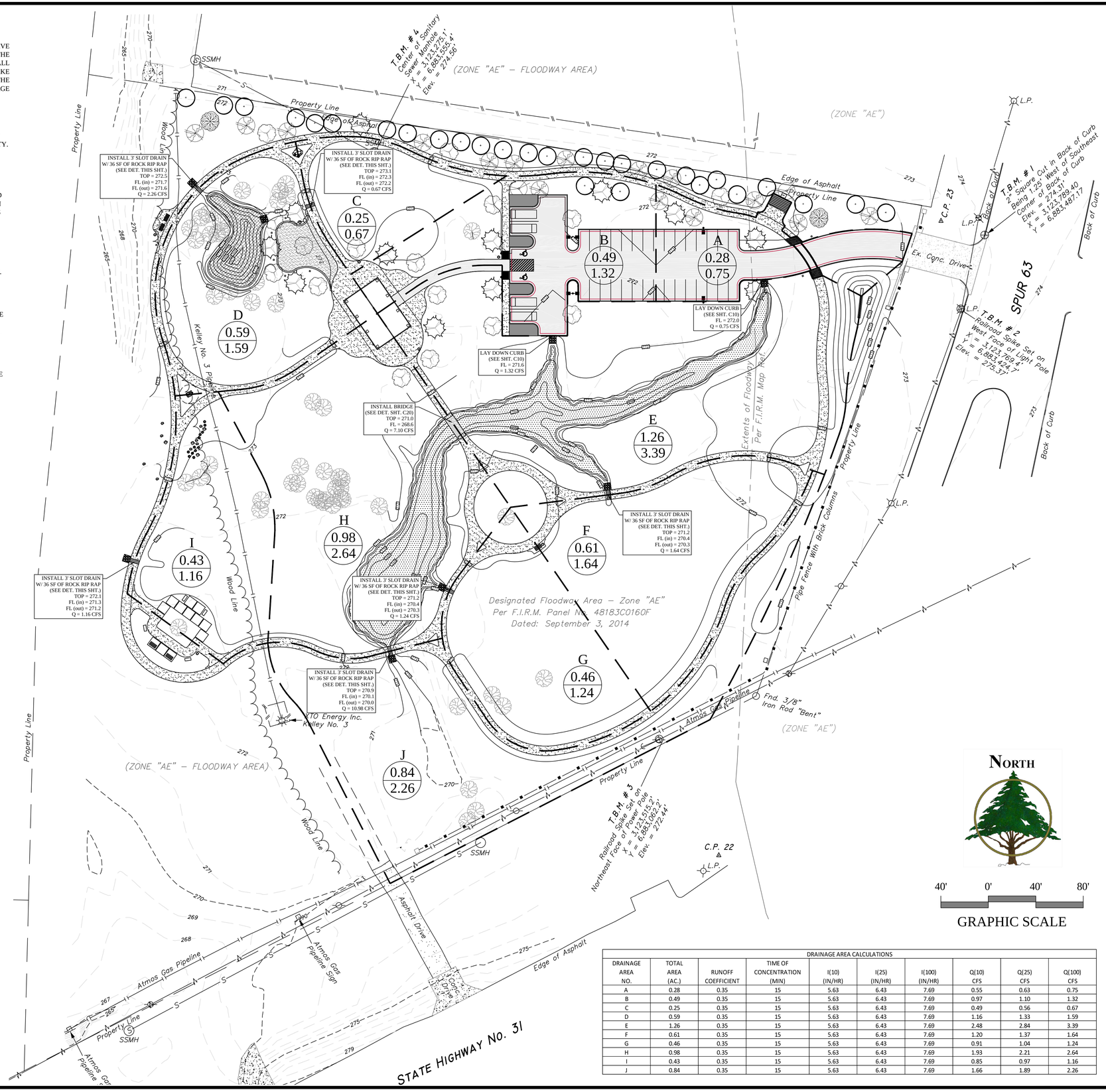
c = 0.35
I = 7.69 (in/hr)
tc = 15 (min.)



NOTE: SEE SITE PLAN FOR LOCATION AND WIDTH OF CAST CONCRETE TRAIL DRAINS.

6" SLOT DRAIN DETAIL

NOT TO SCALE



40' 0' 40' 80'

GRAPHIC SCALE

DRAINAGE AREA CALCULATIONS									
DRAINAGE AREA NO.	TOTAL AREA (AC.)	RUNOFF COEFFICIENT	TIME OF CONCENTRATION (MIN)	I(10) (IN/HR)	I(25) (IN/HR)	I(100) (IN/HR)	Q(10) CFS	Q(25) CFS	Q(100) CFS
A	0.28	0.35	15	5.63	6.43	7.69	0.55	0.63	0.75
B	0.49	0.35	15	5.63	6.43	7.69	0.97	1.10	1.32
C	0.25	0.35	15	5.63	6.43	7.69	0.49	0.56	0.67
D	0.59	0.35	15	5.63	6.43	7.69	1.16	1.33	1.59
E	1.26	0.35	15	5.63	6.43	7.69	2.48	2.84	3.39
F	0.61	0.35	15	5.63	6.43	7.69	1.20	1.37	1.64
G	0.46	0.35	15	5.63	6.43	7.69	0.91	1.04	1.24
H	0.98	0.35	15	5.63	6.43	7.69	1.93	2.21	2.64
I	0.43	0.35	15	5.63	6.43	7.69	0.85	0.97	1.16
J	0.84	0.35	15	5.63	6.43	7.69	1.66	1.89	2.26

REVISIONS:

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STATE OF TEXAS
WILLIAM H. SPENCER
107759
LICENSED PROFESSIONAL ENGINEER
2-24-17

MHS
PLANNING & DESIGN, LLC

DRAINAGE PLAN
THE GREEN
KEEP LONGVIEW BEAUTIFUL
CITY OF LONGVIEW, TEXAS

DRAWN: WHS
CHECKED: MHS
DATE: FEB 2017
SCALE: AS SHOWN
JOB NO.: 15-026

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6. DURING CONSTRUCTION OF THESE PUBLIC IMPROVEMENTS, ANY DEVIATION FROM THESE SPECIFICATIONS WILL REQUIRE APPROVAL FROM THE OWNER OR HIS DESIGNEE BEFORE ANY CONSTRUCTION INVOLVING THAT DECISION COMMENCES.
7. ALL FACILITIES SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE CITY OF LONGVIEW STANDARD CONSTRUCTION DETAILS.
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9. BACKFILL FOR UTILITY LINES SHALL CONFORM TO THE CITY'S STANDARD DETAILS. UTILITY DITCHES SHOULD BE VISUALLY INSPECTED DURING THE EXCATVATION PROCESS TO ENSURE THAT UNDESIRABLE FILL IS NOT USED.
10. IF ROCK IS ENCOUNTERED IN THE TRENCH, ROCK SPOILS SHALL NOT BE USED IN THE UPPER 1.5' OF THE TRENCH.
11. DOMESTIC AND FIRE WATER SERVICE LINES SHALL BE PER CITY BUILDING CODE REQUIREMENTS. PLUMBING AND BUILDING PERMITS WILL BE REQUIRED, BUT WILL BE AT NO COST.
12. ALL 6" AND SMALLER WATER MAINS SHALL HAVE A MINIMUM COVER OF 42" OR SUFFICIENT COVER TO CLEAR OTHER UTILITIES AS MEASURED FROM TOP OF PIPE TO EXISTING GROUND LEVEL OR FINISHED GRADE, WHICHEVER IS GREATER.
13. ALL WATER LINES SHALL BE ENDOTRACE HIGH DENSITY POLYETHYLENE (HDPE).
14. ALL GATE VALVES SHALL BE CITY APPROVED.
15. ALL WATER AND SANITARY MAINS AND SERVICES SHALL HAVE A 10' MIN. LATERAL SEPARATION.

REFERENCE BENCHMARK:

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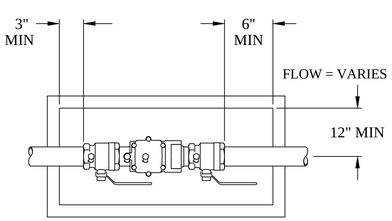
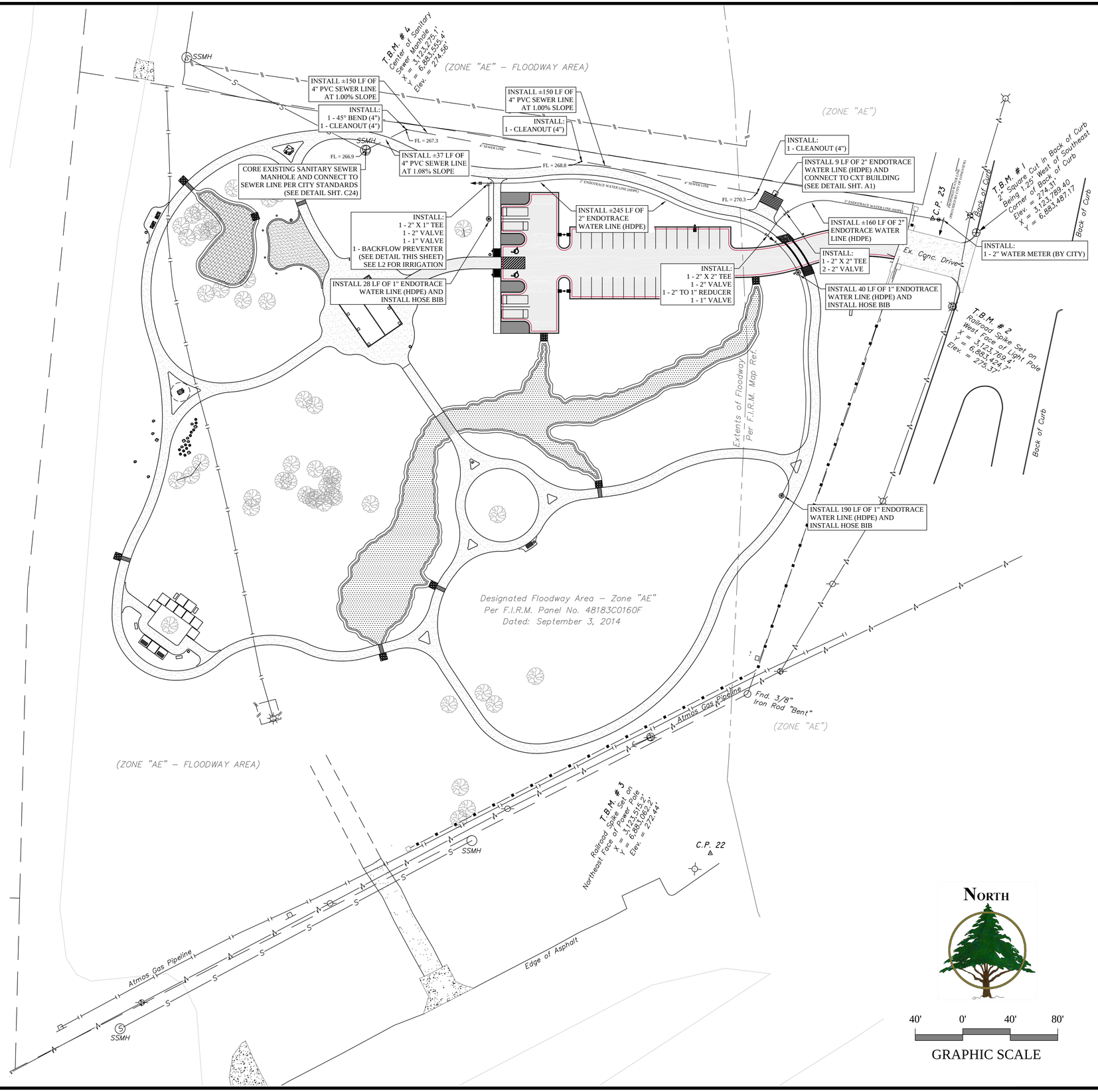


FEBCO MODEL 850
Double Check Assembly
Pit Installation



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UTILITY PLAN
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KEEP LONGVIEW BEAUTIFUL
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4. EROSION CONTROL SHALL BE REQUIRED DURING ALL PHASES OF CONSTRUCTION.
5. ALL PROPOSED GRADES IN LANDSCAPE AREAS ARE FINISHED GRADE ELEVATIONS. CONTRACTOR TO ALLOW FOR CONCRETE, SEEDING OR SODDING OF THESE AREAS.
6. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CONTRACT DOCUMENTS, TECHNICAL SPECIFICATIONS, OR CITY STANDARDS FOR THE PROJECT UNLESS OTHERWISE INDICATED IN THIS PLAN SET.
7. DURING CONSTRUCTION OF THESE PUBLIC IMPROVEMENTS, ANY DEVIATION FROM THESE SPECIFICATIONS WILL REQUIRE APPROVAL FROM THE OWNER OR HIS DESIGNEE BEFORE ANY CONSTRUCTION INVOLVING THAT DECISION COMMENCES. ASSUMPTIONS ABOUT WHAT THESE DECISIONS MIGHT BE THAT ARE MADE DURING THE BIDDING PROCESS WILL HAVE NO BEARING ON THE DECISION.
8. ALL FACILITIES SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE CITY OF LONGVIEW STANDARD CONSTRUCTION DETAILS.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES DURING THE CONSTRUCTION OF THE PROJECT. ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC. MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING CONSTRUCTION OF THE PAVING FOR THIS DEVELOPMENT.
10. DRAINAGE SHOULD BE MAINTAINED AWAY FROM THE FOUNDATIONS, BOTH DURING AND AFTER CONSTRUCTION.
11. BACKFILL FOR UTILITY LINES SHALL CONFORM TO THE CITY'S STANDARD DETAIL. UTILITY DITCHES SHOULD BE VISUALLY INSPECTED DURING THE EXCAVATION PROCESS TO ENSURE THAT UNDESIRABLE FILL IS NOT USED.
12. IF ROCK IS ENCOUNTERED IN THE TRENCH, ROCK SPOILS SHALL NOT BE USED IN THE UPPER 1.5' OF THE TRENCH.
13. ALL SIDEWALK AND CROSSWALK SLOPES SHALL CONFORM TO ADA REQUIREMENTS AS FOLLOWS:
    1:20 LONGITUDINAL (ALONG THE WALK) MAX
    1:50 TRAVERSE (ALONG THE WALK) MAX
14. ALL PAVING AND EARTHWORK OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS PER THE GEOTECHNICAL INVESTIGATION (PROJECT NO. LE16-005) BY ALLIANCE GEOTECHNICAL GROUP (FEBRUARY 2016).

LEGEND

- 6" - 4000 PSI CONCRETE PAVEMENT W/ #3 BARS @ 18" O.C.E.W OVER 8" SUBGRADE W/ 6% CEMENT STABILIZATION (SEE DETAIL SHT. C22)
- 5" - 4000 PSI CONCRETE PAVEMENT W/ #3 BARS @ 18" O.C.E.W OVER 6" COMPACTED SUBGRADE (SEE DETAIL SHT. C22)
- EXISTING PAVEMENT
- NO CURB
- EJ — EXPANSION JOINT
- CURB
- 8' X 8' RECYCLED CONCRETE BLOCKS

REFERENCE BENCHMARK:

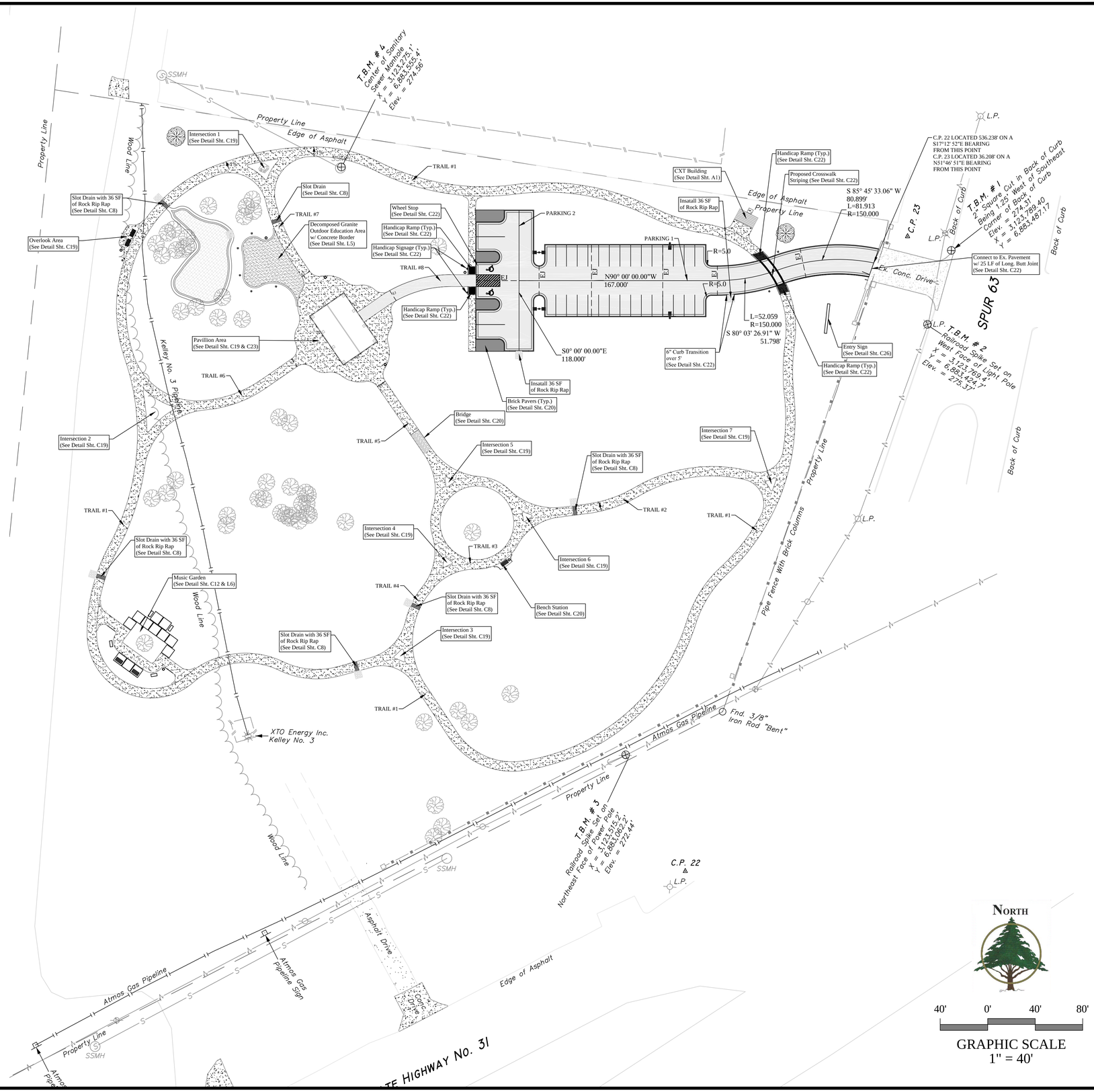
THE BOUNDARY SURVEY, TOPOGRAPHIC SURVEY, BENCHMARKS AND LOCATION OF ALL EXISTING UTILITIES, STRUCTURES, TREES AND IMPROVEMENTS WERE PROVIDED BY THOMPSON & ASSOCIATES INC AND ARE ON THE CITY OF LONGVIEW'S STANDARD BENCHMARK SYSTEM.

T.B.M. #1 - 2" SQUARE CUT IN BACK OF CURB BEING 1.25' WEST OF SOUTHEAST CORNER OF BACK OF CURB
ELEVATION = 274.31'
X = 3,123,789.40
Y = 6,883,487.17

T.B.M. #2 - RAILROAD SPIKE SET ON WEST FACE OF LIGHT POLE
ELEVATION = 275.37'
X = 3,123,769.4'
Y = 6,883,424.7'

T.B.M. #3 - RAILROAD SPIKE SET ON NORTHEAST FACE OF POWER POLE
ELEVATION = 272.44'
X = 3,123,515.2'
Y = 6,883,062.2'

T.B.M. #4 - SOUTH RIM OF SANITARY SEWER MANHOLE
ELEVATION = 274.55'
X = 3,123,275.1'
Y = 6,883,555.4'



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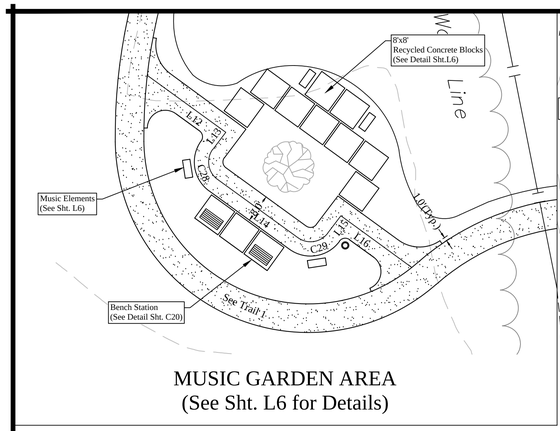
LICENSED PROFESSIONAL ENGINEER
2-24-17

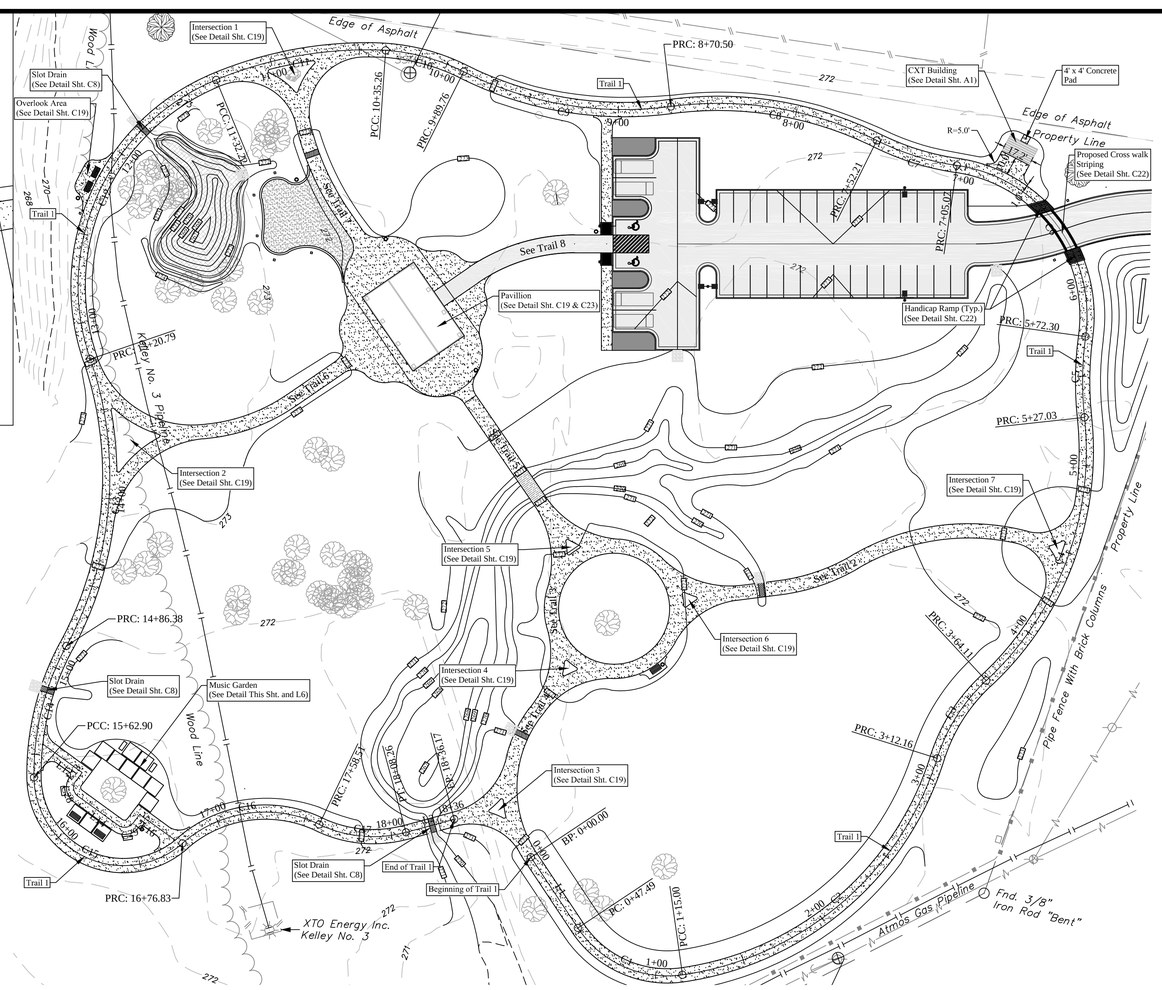
MHS PLANNING & DESIGN, LLC

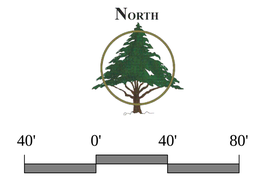
PAVING AND HORIZONTAL CONTROL PLAN
THE GREEN
KEEP LONGVIEW BEAUTIFUL
CITY OF LONGVIEW, TEXAS

DRAWN:	WHS
CHECKED:	MHS
DATE:	FEB 2017
SCALE:	AS SHOWN
JOB NO.:	15-026



MUSIC GARDEN AREA
(See Sht. L6 for Details)



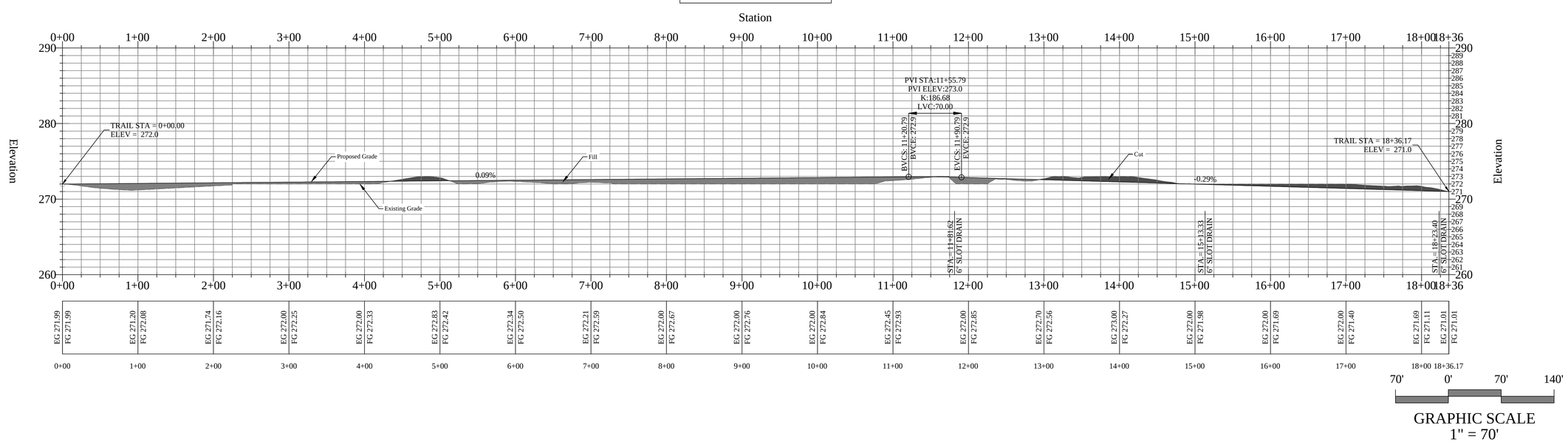


GRAPHIC SCALE
1" = 40'

Parcel Line and Curve Table			
Line #/Curve #	Length	Bearing/Delta	Radius
L12	27.10	N54° 01' 13.00"W	
L13	6.09	N37° 03' 28.19"E	
C28	8.87	84.11	6.05
L14	28.21	N54° 02' 21.89"W	
C29	9.31	88.91	6.00
L15	6.10	S37° 03' 25.60"W	
L16	24.54	N53° 53' 23.90"W	

Trail 1			
Number	Radius	Length	Line/Chord Direction
L1		47.49	S33° 37' 07.05"E
C1	60.00	67.51	S65° 51' 04.67"E
C2	175.00	197.17	N49° 38' 21.02"E
C3	100.00	51.95	N32° 14' 37.60"E
C4	175.00	162.92	N20° 27' 19.81"E
C5	185.00	45.28	N0° 47' 49.75"E
C6	85.00	132.76	N36° 56' 13.36"W
C7	150.00	47.14	N72° 40' 45.57"W
C8	200.00	118.29	N80° 37' 10.47"W
C9	200.00	119.26	N80° 28' 47.75"W
C10	115.00	45.51	N74° 39' 43.97"W
C11	220.00	96.95	S80° 05' 38.57"W
C12	125.00	188.57	S24° 15' 05.90"W
C13	200.00	165.59	S4° 45' 11.96"W
C14	150.00	76.52	S13° 51' 29.90"W
C15	50.00	113.93	S66° 02' 01.41"E
C16	70.00	81.68	N82° 06' 56.16"E
C17	70.00	49.75	S84° 48' 58.83"E
L2		27.91	N74° 49' 28.87"E

Trail 1 PROFILE



70' 0' 70' 140'

GRAPHIC SCALE
1" = 70'

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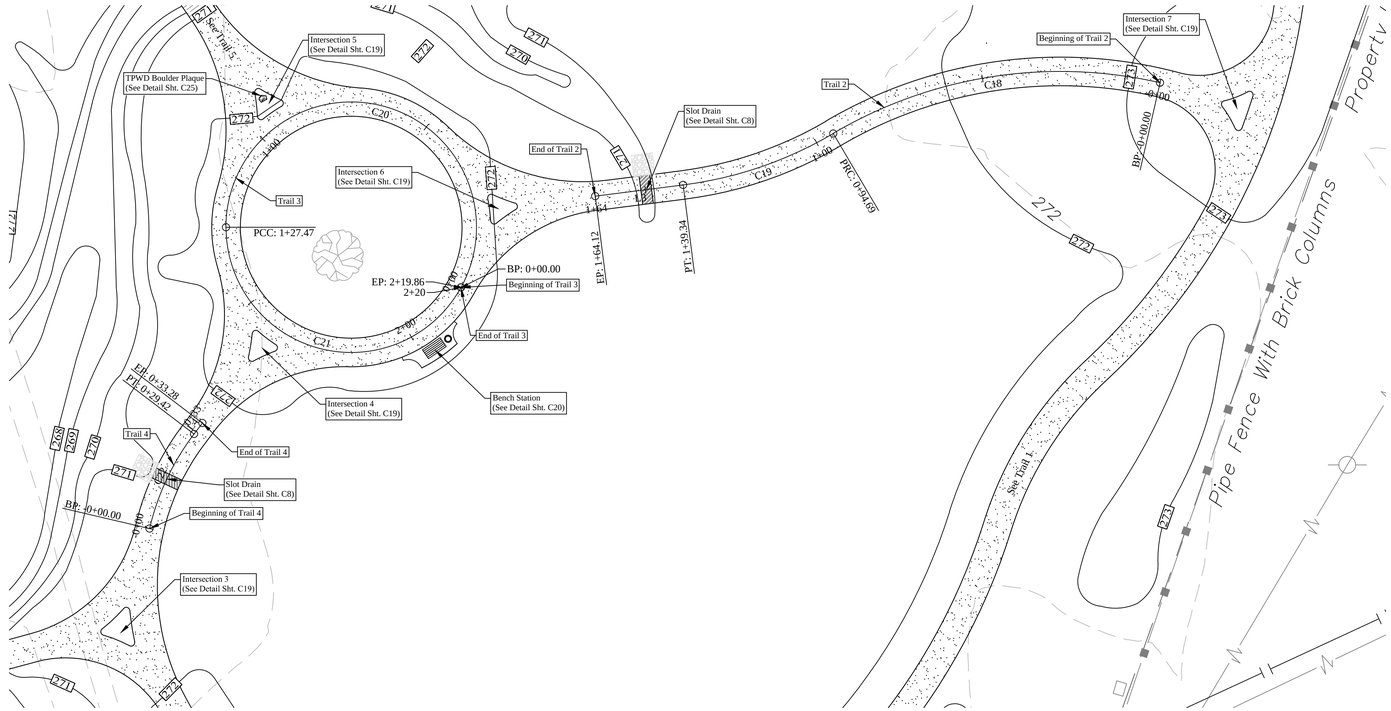
MHS
PLANNING & DESIGN, LLC

TRAIL 1 - PLAN/PROFILE
THE GREEN
KEEP LONGVIEW BEAUTIFUL
CITY OF LONGVIEW, TEXAS

DRAWN: WHS
CHECKED: MHS
DATE: FEB 2017
SCALE: AS SHOWN
JOB NO.: 15-026

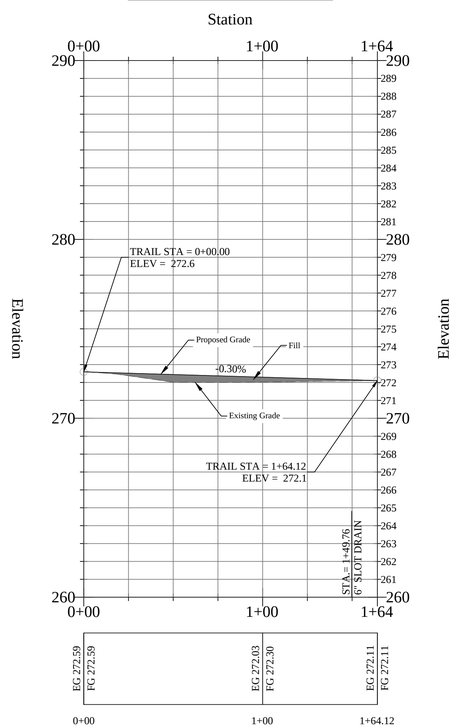


NORTH

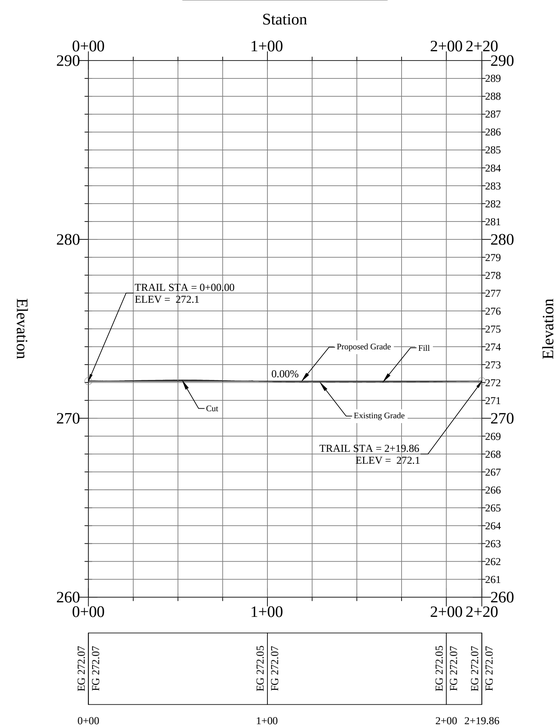
20' 0' 20' 40'

GRAPHIC SCALE
1" = 20'

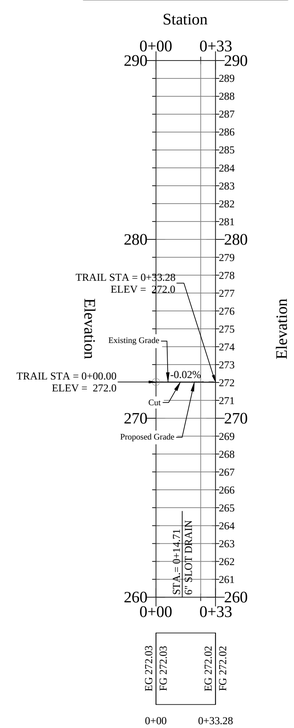
Trail 2 PROFILE



Trail 3 PROFILE



Trail 4 PROFILE



Trail 2			
Number	Radius	Length	Line/Chord Direction
C18	125.00	94.69	S81° 10' 31.11"W
C19	110.00	44.65	S71° 06' 03.86"W
L3		24.78	S82° 43' 43.90"W

Trail 3			
Number	Radius	Length	Line/Chord Direction
C20	35.00	127.47	N75° 39' 39.86"W
C21	35.00	92.39	S75° 37' 20.83"E

Trail 4			
Number	Radius	Length	Line/Chord Direction
C22	70.00	29.42	N25° 11' 58.83"E
L4		3.85	N37° 14' 25.97"E

40' 0' 40' 80'

GRAPHIC SCALE
1" = 40'

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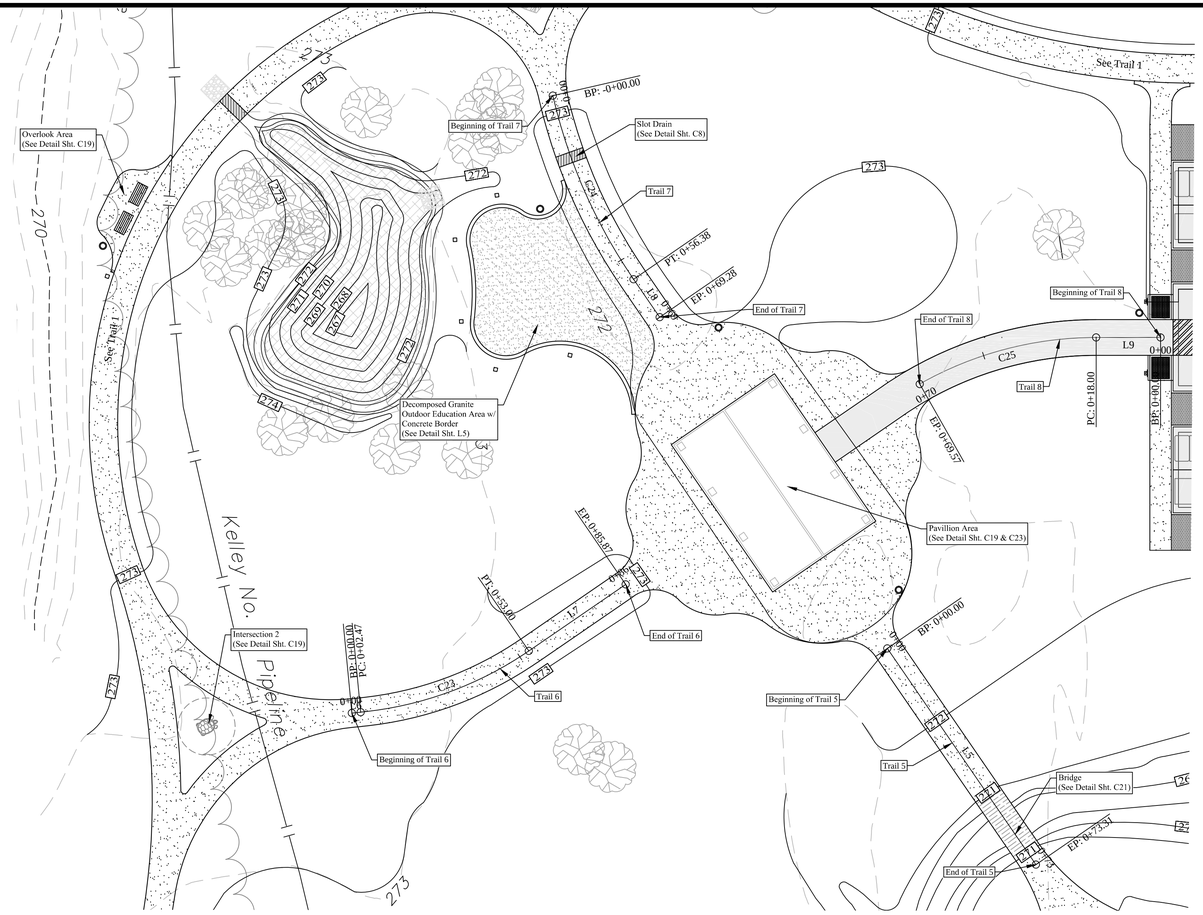
TRAIL 2,3&4 - PLAN/PROFILE

THE GREEN
KEEP LONGVIEW BEAUTIFUL
CITY OF LONGVIEW, TEXAS

DRAWN: WHS
CHECKED: MHS
DATE: FEB 2017
SCALE: AS SHOWN
JOB NO.: 15-026



Trail 5			
Number	Radius	Length	Line/Chord Direction
L5		73.31	S34° 29' 39.48"E

Trail 6			
Number	Radius	Length	Line/Chord Direction
L6		2.47	N84° 27' 29.03"E
C23	100.00	50.53	N69° 58' 54.78"E
L7		32.86	N55° 30' 20.52"E

Trail 7			
Number	Radius	Length	Line/Chord Direction
C24	150.00	56.38	S23° 43' 35.46"E
L8		12.90	S34° 29' 39.48"E

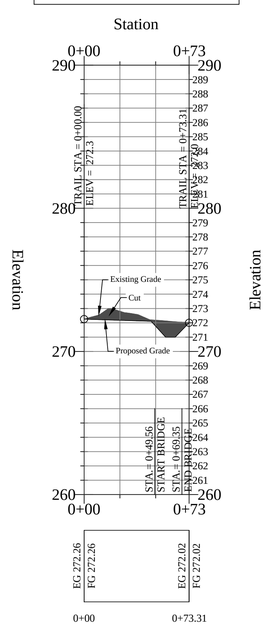
Trail 8			
Number	Radius	Length	Line/Chord Direction
L9		18.00	N90° 00' 00.00"W
C25	100.00	51.57	S75° 13' 29.79"W

NORTH

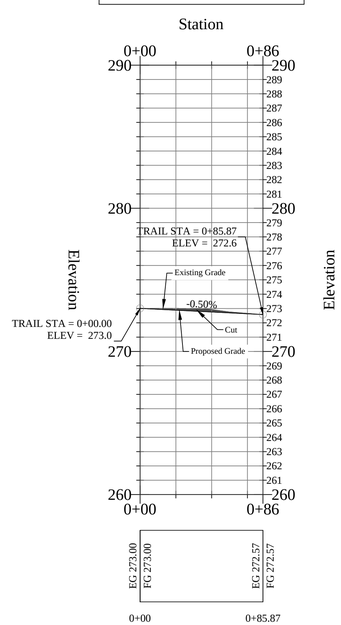
20' 0' 20' 40'

GRAPHIC SCALE
1" = 20'

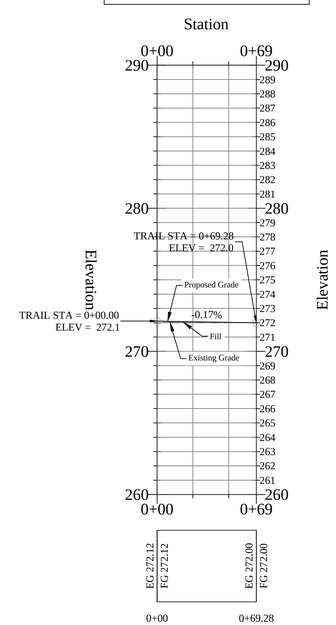
Trail 5 PROFILE



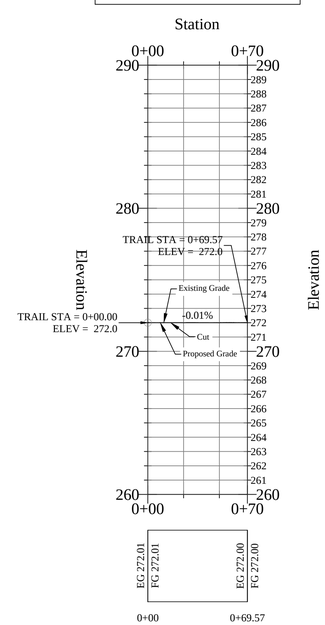
Trail 6 PROFILE



Trail 7 PROFILE



Trail 8 PROFILE



50' 0' 50' 100'

GRAPHIC SCALE
1" = 50'

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TRAIL 5,6,7&8 - PLAN/PROFILE

THE GREEN
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CITY OF LONGVIEW, TEXAS

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DATE:	FEB 2017
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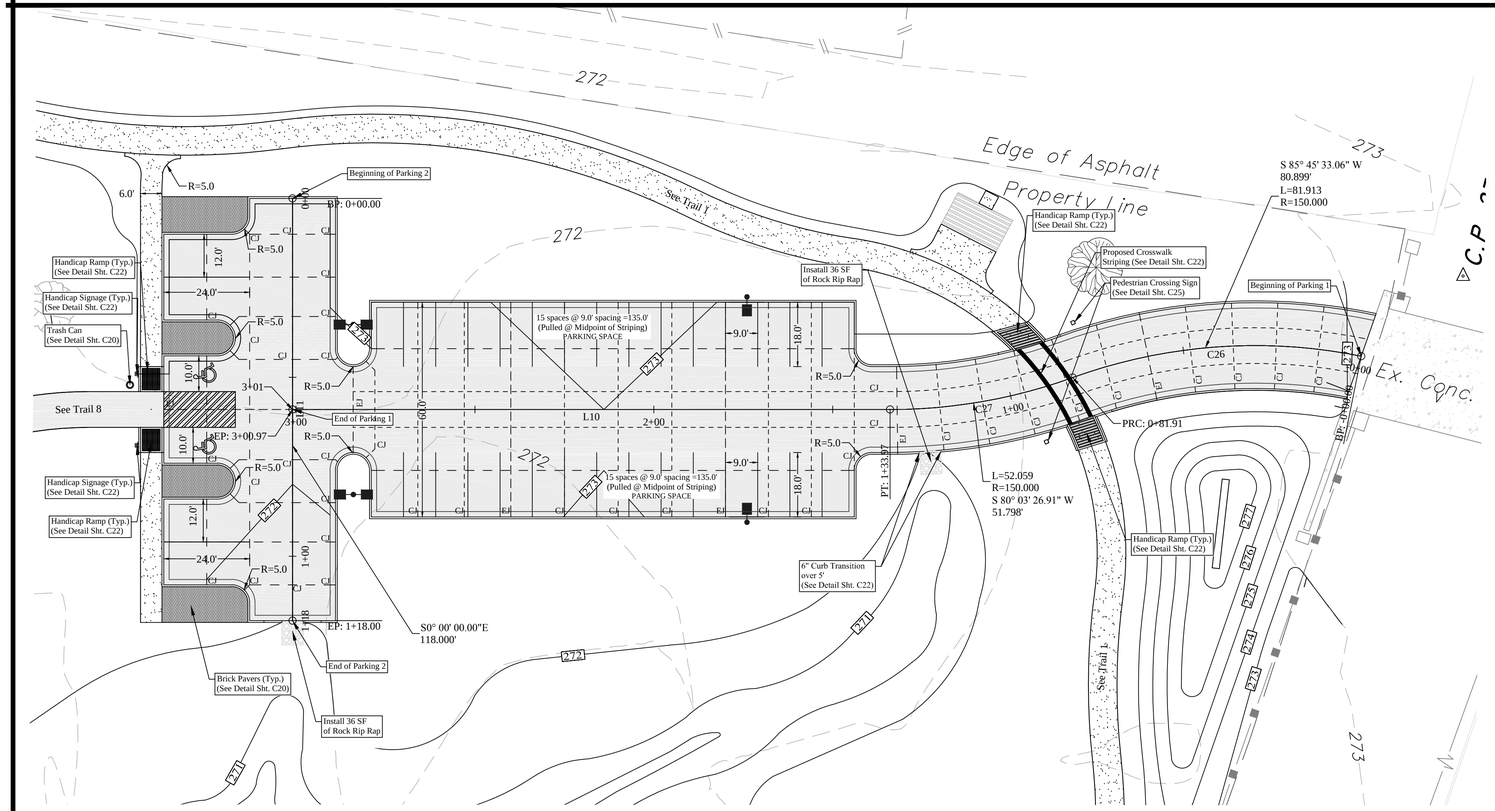
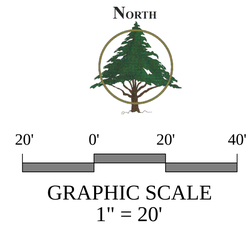
JOB NO.:	15-026

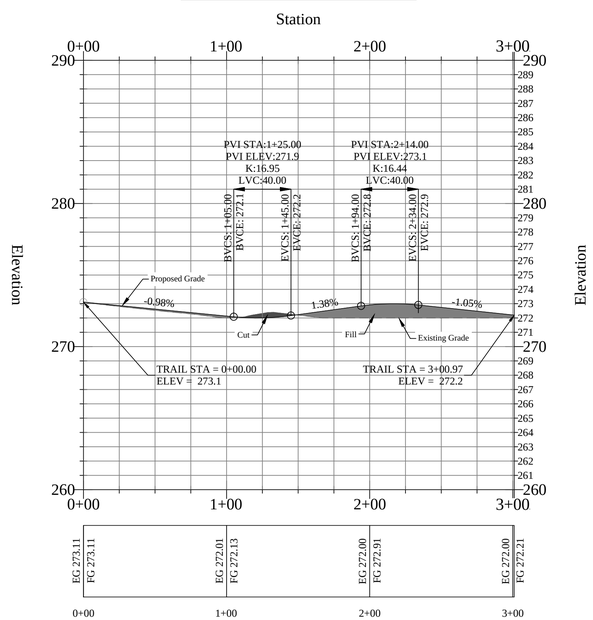




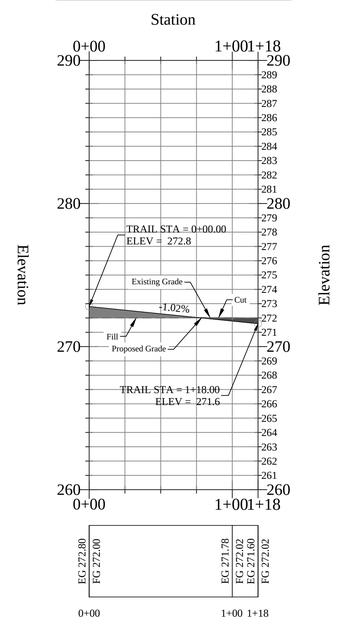
Parking 1			
Number	Radius	Length	Line/Chord Direction
C26	150.00	81.91	S85° 45' 33.06"W
C27	150.00	52.06	S80° 03' 26.91"W
L10		167.00	N90° 00' 00.00"W

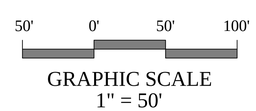
Parking 2			
Number	Radius	Length	Line/Chord Direction
L11		118.00	S0° 00' 00.00"E

Parking 1 PROFILE



Parking 2 PROFILE





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PARKING 1&2 - PLAN/PROFILE

THE GREEN

KEEP LONGVIEW BEAUTIFUL

CITY OF LONGVIEW, TEXAS

DRAWN:	WHS
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DATE:	FEB 2017
SCALE:	AS SHOWN
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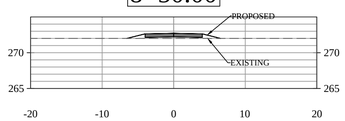
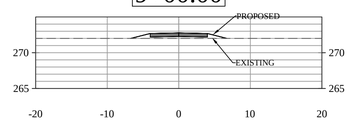
Trail 1

8+50.00



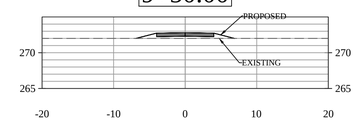
CUT AREA 0.0 SF
FILL AREA 3.0 SF

9+00.00



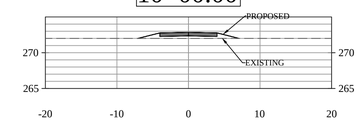
CUT AREA 0.0 SF
FILL AREA 3.6 SF

9+50.00



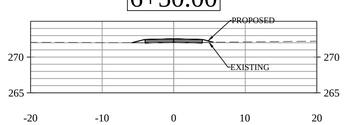
CUT AREA 0.0 SF
FILL AREA 4.2 SF

10+00.00



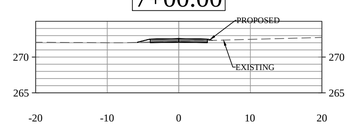
CUT AREA 0.0 SF
FILL AREA 4.5 SF

6+50.00



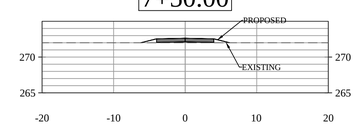
CUT AREA 0.1 SF
FILL AREA 0.7 SF

7+00.00



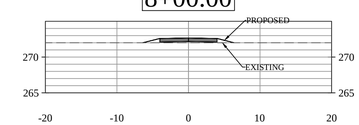
CUT AREA 1.3 SF
FILL AREA 0.5 SF

7+50.00



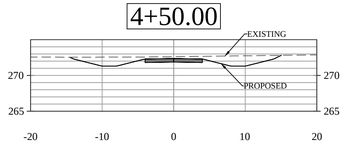
CUT AREA 0.0 SF
FILL AREA 1.9 SF

8+00.00



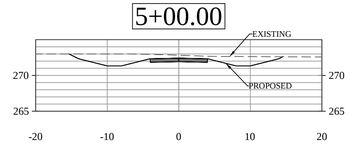
CUT AREA 0.0 SF
FILL AREA 2.5 SF

4+50.00



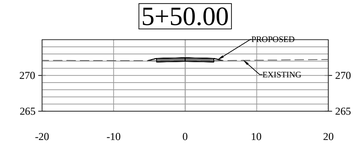
CUT AREA 26.8 SF
FILL AREA 0.0 SF

5+00.00



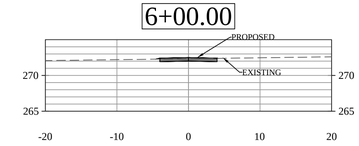
CUT AREA 28.9 SF
FILL AREA 0.0 SF

5+50.00



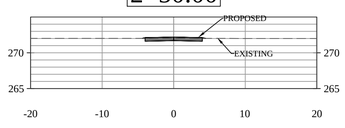
CUT AREA 1.1 SF
FILL AREA 0.4 SF

6+00.00



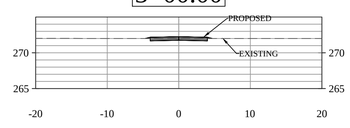
CUT AREA 3.0 SF
FILL AREA 0.0 SF

2+50.00



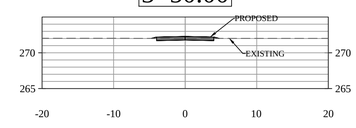
CUT AREA 2.8 SF
FILL AREA 0.0 SF

3+00.00



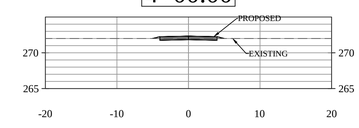
CUT AREA 2.4 SF
FILL AREA 0.2 SF

3+50.00



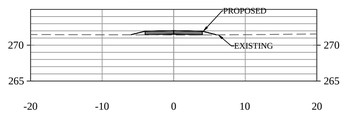
CUT AREA 2.2 SF
FILL AREA 0.2 SF

4+00.00



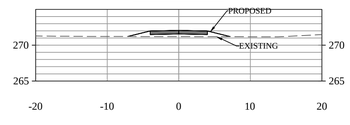
CUT AREA 2.0 SF
FILL AREA 0.2 SF

0+50.00



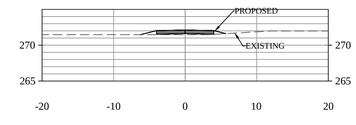
CUT AREA 0.0 SF
FILL AREA 1.3 SF

1+00.00



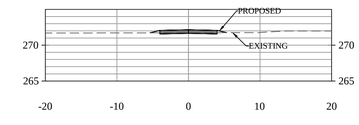
CUT AREA 0.0 SF
FILL AREA 5.2 SF

1+50.00



CUT AREA 0.0 SF
FILL AREA 1.9 SF

2+00.00



CUT AREA 0.9 SF
FILL AREA 0.5 SF

REVISIONS:

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107759
LICENSED
PROFESSIONAL ENGINEER
2-24-17

MHS
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TRAIL 1 - CROSS SECTIONS
THE GREEN
KEEP LONGVIEW BEAUTIFUL
CITY OF LONGVIEW, TEXAS

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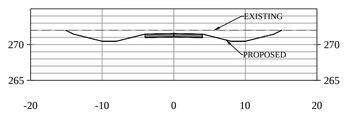
SCALE: AS SHOWN
JOB NO.: 15-026

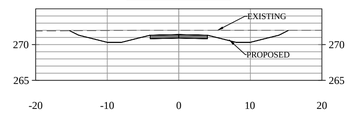
Trail 1

16+50.00



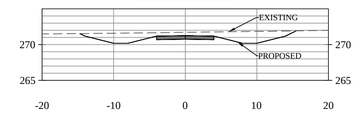
CUT AREA 27.2 SF
FILL AREA 0.0 SF

17+00.00



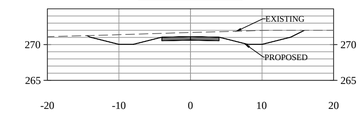
CUT AREA 31.3 SF
FILL AREA 0.0 SF

17+50.00



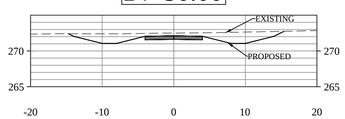
CUT AREA 27.5 SF
FILL AREA 0.0 SF

18+00.00



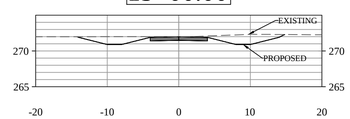
CUT AREA 30.8 SF
FILL AREA 0.0 SF

14+50.00



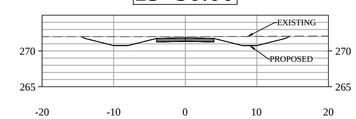
CUT AREA 25.4 SF
FILL AREA 0.0 SF

15+00.00



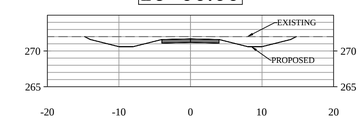
CUT AREA 17.2 SF
FILL AREA 0.0 SF

15+50.00



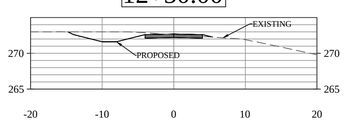
CUT AREA 19.2 SF
FILL AREA 0.0 SF

16+00.00



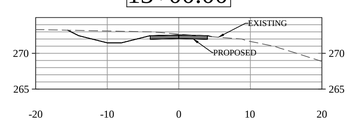
CUT AREA 22.9 SF
FILL AREA 0.0 SF

12+50.00



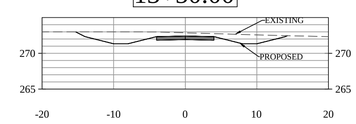
CUT AREA 10.2 SF
FILL AREA 0.2 SF

13+00.00



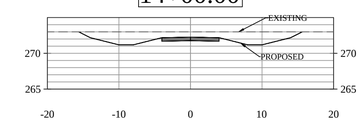
CUT AREA 14.4 SF
FILL AREA 0.0 SF

13+50.00



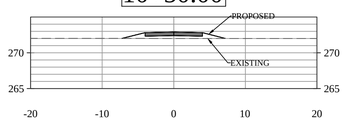
CUT AREA 25.8 SF
FILL AREA 0.0 SF

14+00.00



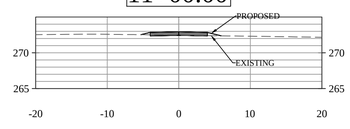
CUT AREA 35.7 SF
FILL AREA 0.0 SF

10+50.00



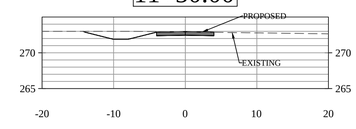
CUT AREA 0.0 SF
FILL AREA 5.1 SF

11+00.00



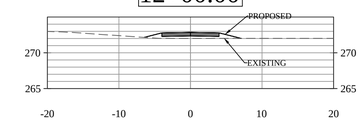
CUT AREA 0.7 SF
FILL AREA 0.7 SF

11+50.00



CUT AREA 11.5 SF
FILL AREA 0.0 SF

12+00.00



CUT AREA 0.0 SF
FILL AREA 4.6 SF

REVISIONS:

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107759
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PROFESSIONAL ENGINEER
2-24-17

MHS
PLANNING & DESIGN, LLC

TRAIL 1 - CROSS SECTIONS
THE GREEN
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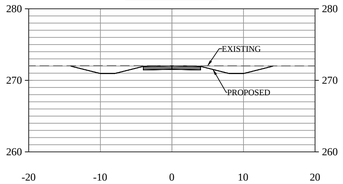
Trail 4

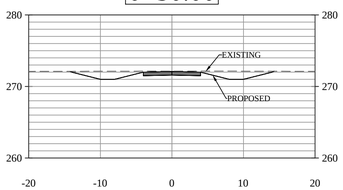
0+17.00



CUT AREA 13.9 SF
FILL AREA 0.0 SF

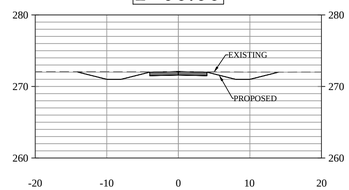
Trail 3

0+50.00



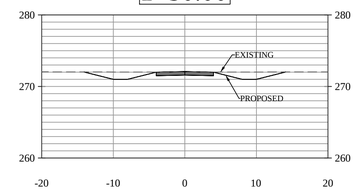
CUT AREA 15.7 SF
FILL AREA 0.0 SF

1+00.00



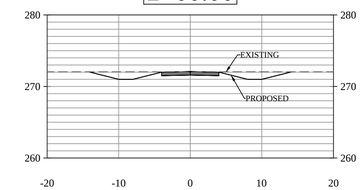
CUT AREA 13.1 SF
FILL AREA 0.0 SF

1+50.00



CUT AREA 12.5 SF
FILL AREA 0.0 SF

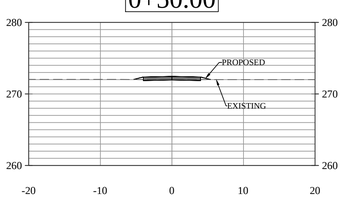
2+00.00



CUT AREA 13.3 SF
FILL AREA 0.0 SF

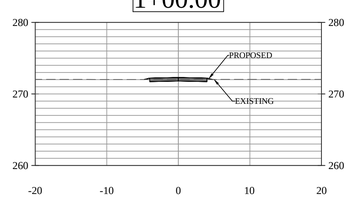
Trail 2

0+50.00



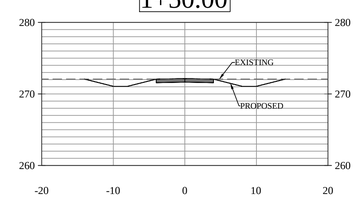
CUT AREA 0.9 SF
FILL AREA 0.5 SF

1+00.00



CUT AREA 2.15 SF
FILL AREA 0.15 SF

1+50.00



CUT AREA 12.4 SF
FILL AREA 0.0 SF

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STATE OF TEXAS
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2-24-17

MHS
PLANNING & DESIGN, LLC

TRAIL 2-4 - CROSS SECTIONS
THE GREEN
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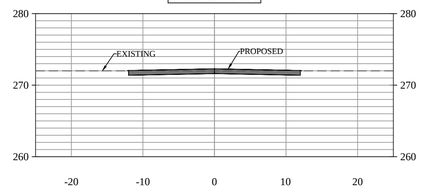
JOB NO.: 15-026

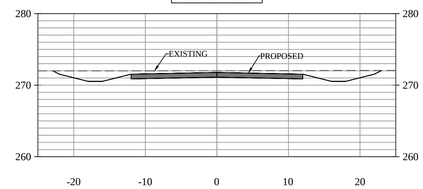
Parking 2

0+50.00



CUT AREA 11.9 SF
FILL AREA 0.0 SF

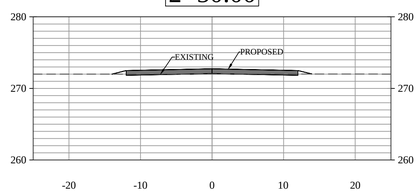
1+00.00



CUT AREA 46.7 SF
FILL AREA 0.0 SF

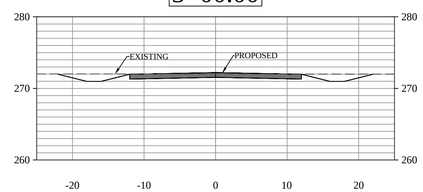
Parking 1

2+50.00



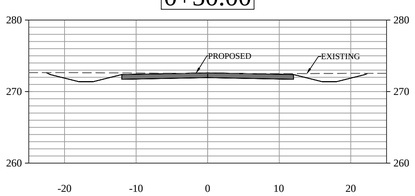
CUT AREA 1.6 SF
FILL AREA 1.0 SF

3+00.00



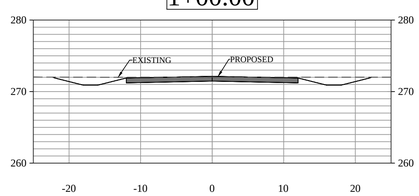
CUT AREA 26.7 SF
FILL AREA 0.0 SF

0+50.00



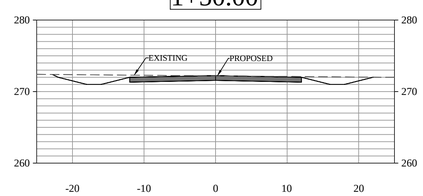
CUT AREA 32.5 SF
FILL AREA 0.0 SF

1+00.00



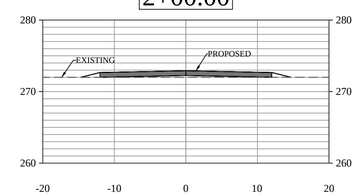
CUT AREA 30.9 SF
FILL AREA 0.0 SF

1+50.00



CUT AREA 34.4 SF
FILL AREA 0.0 SF

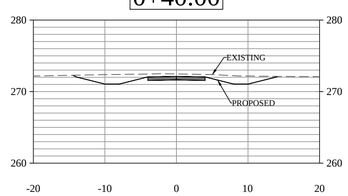
2+00.00



CUT AREA 0.0 SF
FILL AREA 4.7 SF

Trail 5

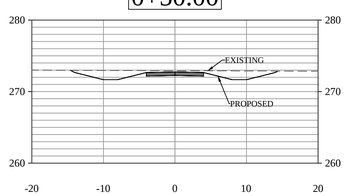
0+40.00



CUT AREA 20.2 SF
FILL AREA 0.0 SF

Trail 6

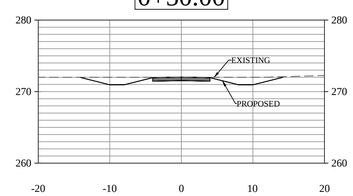
0+50.00



CUT AREA 18.9 SF
FILL AREA 0.0 SF

Trail 7

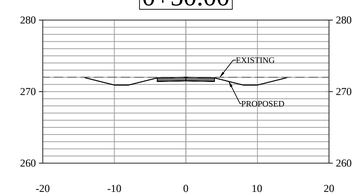
0+50.00



CUT AREA 13.2 SF
FILL AREA 0.0 SF

Trail 8

0+50.00



CUT AREA 14.0 SF
FILL AREA 0.0 SF

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TRAIL 5-8 AND PARKING 1&2 CROSS SECTIONS
THE GREEN
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Parcel Line and Curve Table			
Line #/Curve #	Length	Bearing/Delta	Radius
C1	11.59	66.42	10.00
C2	21.23	48.65	25.00
C3	12.48	47.66	15.00
C4	14.12	53.93	15.00
C5	13.70	78.50	10.00
C6	13.70	78.50	10.00
C7	14.12	53.93	15.00
C8	12.48	47.66	15.00
C9	21.23	48.65	25.00
C10	11.59	66.42	10.00
C11	11.59	66.42	10.00
C12	21.23	48.65	25.00
C13	12.48	47.66	15.00
C14	13.20	50.43	15.00
C15	14.16	81.12	10.00
C16	12.64	72.40	10.00
C17	13.73	52.46	15.00
C18	12.48	47.66	15.00
C19	21.23	48.65	25.00
C20	11.59	66.42	10.00
C21	6.05	69.33	5.00
C22	11.10	63.58	10.00
C23	6.05	69.33	5.00
C24	11.10	63.58	10.00
L1	1.00	S71° 05' 04.63"E	
L2	11.41	N27° 01' 15.76"E	
L3	1.00	N54° 52' 23.86"W	

Intersections			
Number	Radius	Length	Line/Chord Direction
C25	220.00	83.59	N78° 41' 59.14"E
C26	35.00	59.91	S40° 32' 42.41"W
C27	35.00	60.62	N62° 34' 50.90"W
C28	200.00	93.15	N5° 32' 30.97"W
C29	60.00	80.28	S46° 07' 45.29"W
C30	60.00	80.28	S57° 12' 47.22"E
C31	45.00	48.43	N43° 59' 30.57"E
C32	35.00	43.71	N69° 23' 49.09"W
C33	70.00	57.15	S10° 13' 47.68"E
C34	50.00	47.10	N10° 15' 23.35"E
C35	50.00	47.10	S64° 13' 28.59"W
C36	35.00	44.02	S52° 45' 34.03"E
C37	50.00	47.10	N7° 30' 36.86"W
C38	35.00	44.02	S55° 30' 20.52"W
C39	50.00	47.10	S61° 28' 42.10"E
C40	50.00	47.09	S70° 17' 23.65"E
C41	35.00	43.97	N7° 18' 55.72"W
C42	50.00	47.98	S56° 14' 43.84"W
C43	25.00	43.65	S59° 28' 27.13"W
C44	25.00	46.18	N24° 12' 08.81"W

NOTE: SEE GENERAL NOTES ON SHEET C10

REFERENCE BENCHMARK:
THE BOUNDARY SURVEY, TOPOGRAPHIC SURVEY, BENCHMARKS AND LOCATION OF ALL EXISTING UTILITIES, STRUCTURES, TREES AND IMPROVEMENTS WERE PROVIDED BY THOMPSON & ASSOCIATES INC AND ARE ON THE CITY OF LONGVIEW'S STANDARD BENCHMARK SYSTEM.

T.B.M. #1 - 2" SQUARE CUT IN BACK OF CURB BEING 1.25' WEST OF SOUTHEAST CORNER OF BACK OF CURB
ELEVATION = 274.31'
X = 3,123,789.40
Y = 6,883,487.17

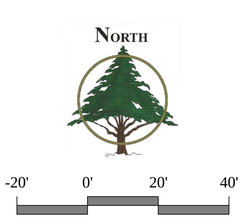
T.B.M. #2 - RAILROAD SPIKE SET ON WEST FACE OF LIGHT POLE
ELEVATION = 275.37'
X = 3,123,769.4'
Y = 6,883,424.7'

T.B.M. #3 - RAILROAD SPIKE SET ON NORTHEAST FACE OF POWER POLE
ELEVATION = 272.44'
X = 3,123,515.2'
Y = 6,883,062.2'

T.B.M. #4 - SOUTH RIM OF SANITARY SEWER MANHOLE
ELEVATION = 274.55'
X = 3,123,275.1'
Y = 6,883,555.4'

LEGEND

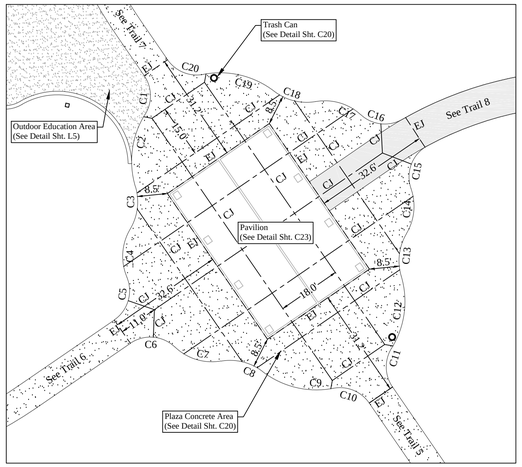
- 6" - 4000 PSI CONCRETE PAVEMENT W/ #3 BARS @ 18" O.C.E.W OVER 8" SUBGRADE W/ 6% CEMENT STABILIZATION (SEE DETAIL SHT. C22)
- 5" - 4000 PSI CONCRETE PAVEMENT W/ #3 BARS @ 18" O.C.E.W OVER 6" COMPACTED SUBGRADE (SEE DETAIL SHT. C22)
- EXISTING PAVEMENT
- NO CURB
- EJ — EXPANSION JOINT
- CURB
- 8' X 8' RECYCLED CONCRETE BLOCKS
- CJ — CONTROL JOINT



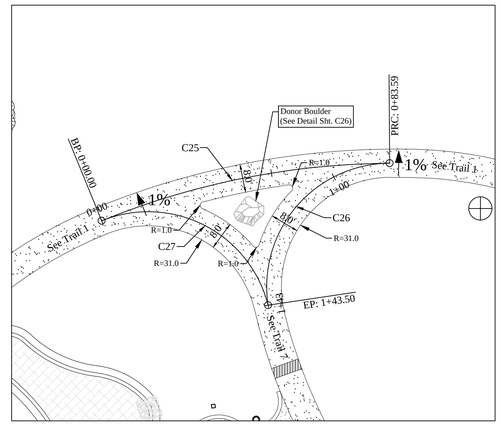
-20' 0' 20' 40'

GRAPHIC SCALE

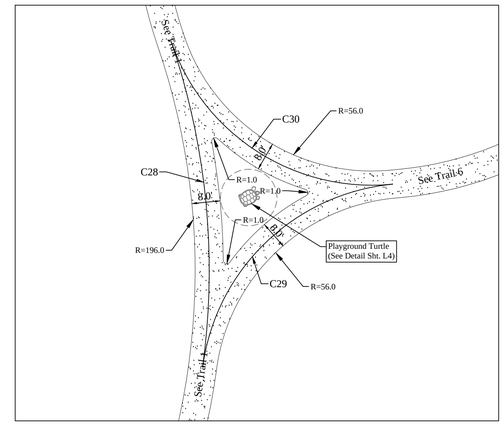
Pavilion Area



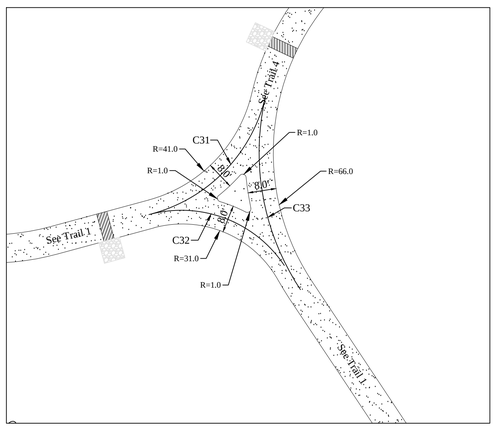
Intersection 1



Intersection 2



Intersection 3



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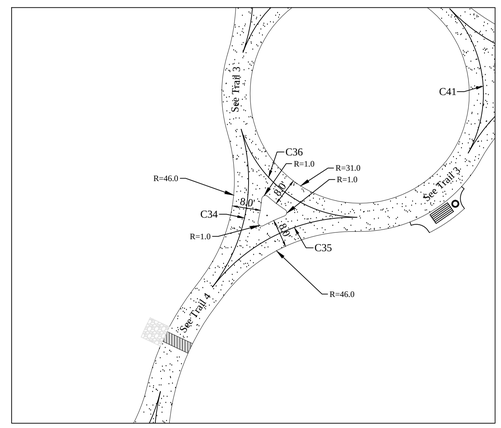

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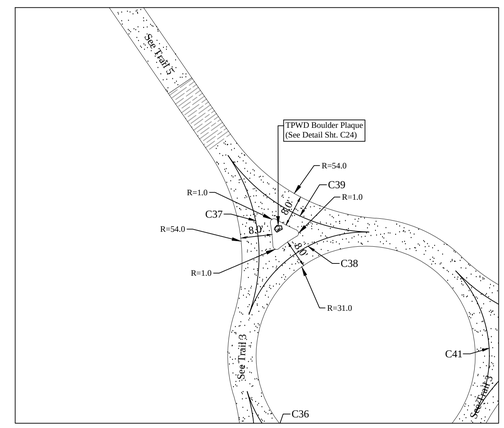
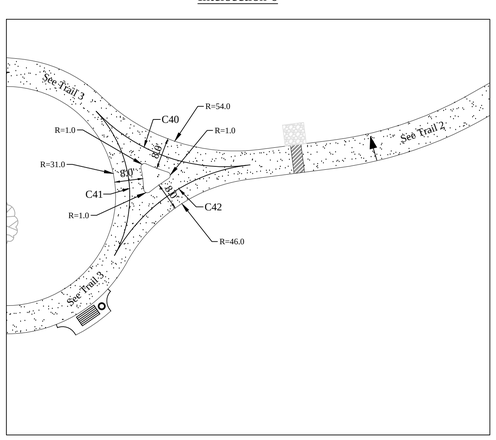
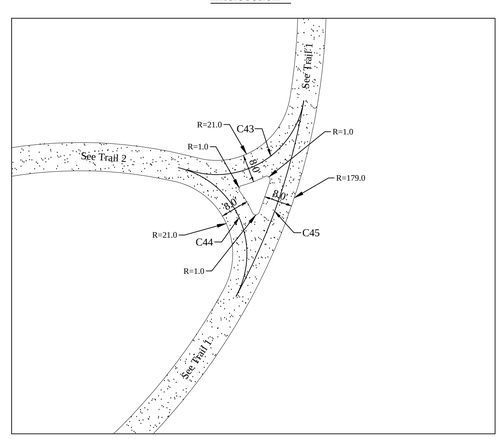


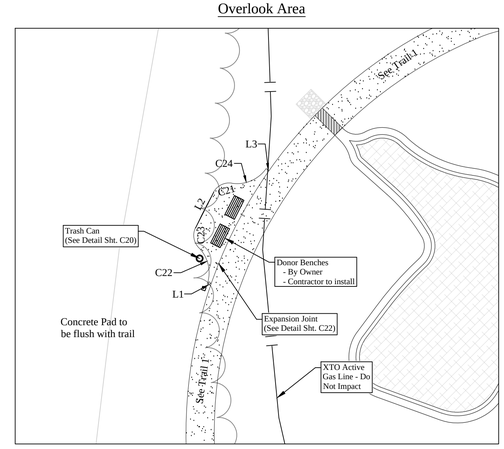
Intersection 6



Intersection 7



Overlook Area



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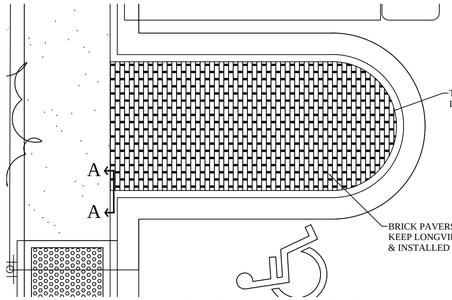
STATE OF TEXAS
WILLIAM H. SPENCER
107759
LICENSED
2-24-17

MHS
PLANNING & DESIGN, LLC

INTERSECTION DETAILS
THE GREEN
KEEP LONGVIEW BEAUTIFUL
CITY OF LONGVIEW, TEXAS

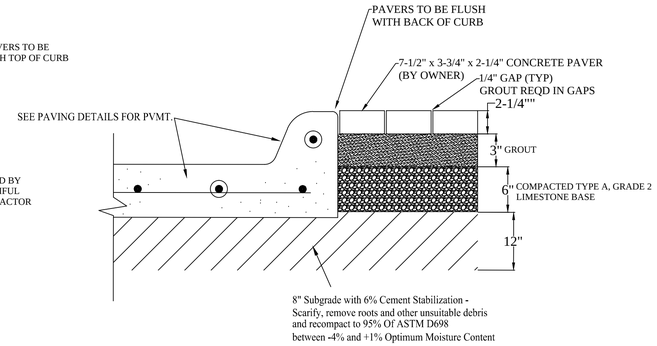
DRAWN: WHS
CHECKED: MHS
DATE: FEB 2017
SCALE: AS SHOWN
JOB NO.: 15-026



CONTRACTOR TO INSTALL 815 SQFT
OF CONCRETE PAVERS PROVIDED BY OWNER

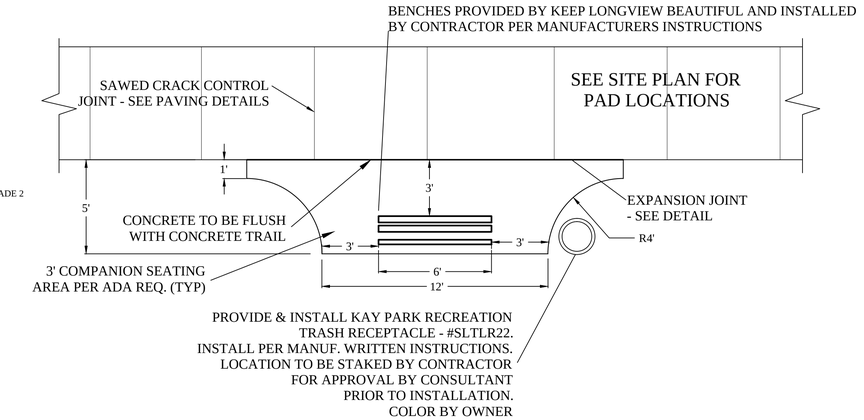
BRICK PAVER DETAIL

4 ISLANDS REQD 1" = 5'
SEE PARKING PLAN SHT C14 FOR DIMENSIONS



BRICK PAVER SECTION A-A

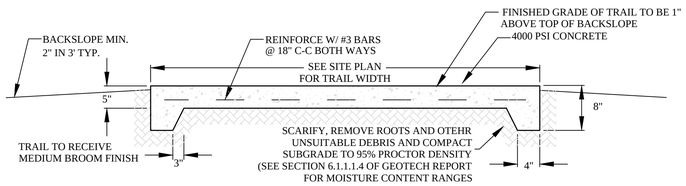
N.T.S.



PLAN VIEW

TRAIL BENCH STATION

SCALE : NTS



NOTES: CROSS SLOPE OF TRAIL TO BE ±1% WITH TERRAIN BUT NOT TO EXCEED 2%.
RUNNING SLOPE OF TRAIL TO BE LESS THAN 5% IN ALL AREAS.

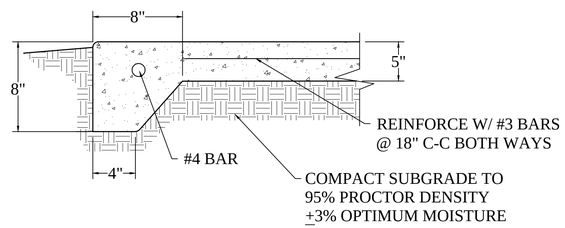
ALTER TRAIL SECTION ELEVATION TO ALLOW CROSS DRAINAGE.

CENTERLINE OF TRAIL TO BE ±3" ABOVE NATURAL GRADE WHERE
FINISHED GRADES ARE NOT SHOWN.
BACKFILL TRAIL TO 1" BELOW SURFACE.

SECTION

CONCRETE TRAIL DETAIL

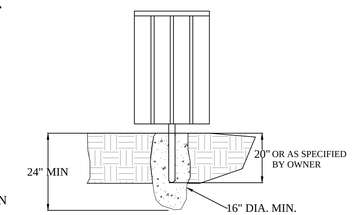
N.T.S.



BENCH PAD DETAIL

SCALE : NTS

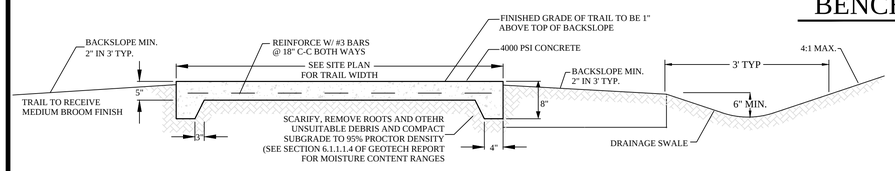
PROVIDE & INSTALL KAYPARK EQUIPMENT TRASH
RECEPTACLE - #SLTLR22 (IN-GROUND).
INSTALL PER MANUF WRITTEN INSTRUCTIONS
LOCATION TO BE STAKED BY CONTRACTOR FOR
APPROVAL BY CONSULTANT PRIOR TO INSTALLATION



SECTION

TRASH RECEPTACLE

NOT TO SCALE



NOTES: CROSS SLOPE OF TRAIL TO BE ±1% WITH TERRAIN BUT NOT TO EXCEED 2%.
RUNNING SLOPE OF TRAIL TO BE LESS THAN 5% IN ALL AREAS.

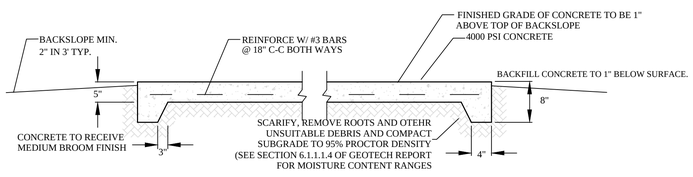
ALTER TRAIL SECTION ELEVATION TO ALLOW CROSS DRAINAGE.

CENTERLINE OF TRAIL TO BE ±3" ABOVE NATURAL GRADE WHERE
FINISHED GRADES ARE NOT SHOWN.
BACKFILL TRAIL TO 1" BELOW SURFACE.

SECTION

TRAIL DETAIL W/ DRAIN SWALE

N.T.S.



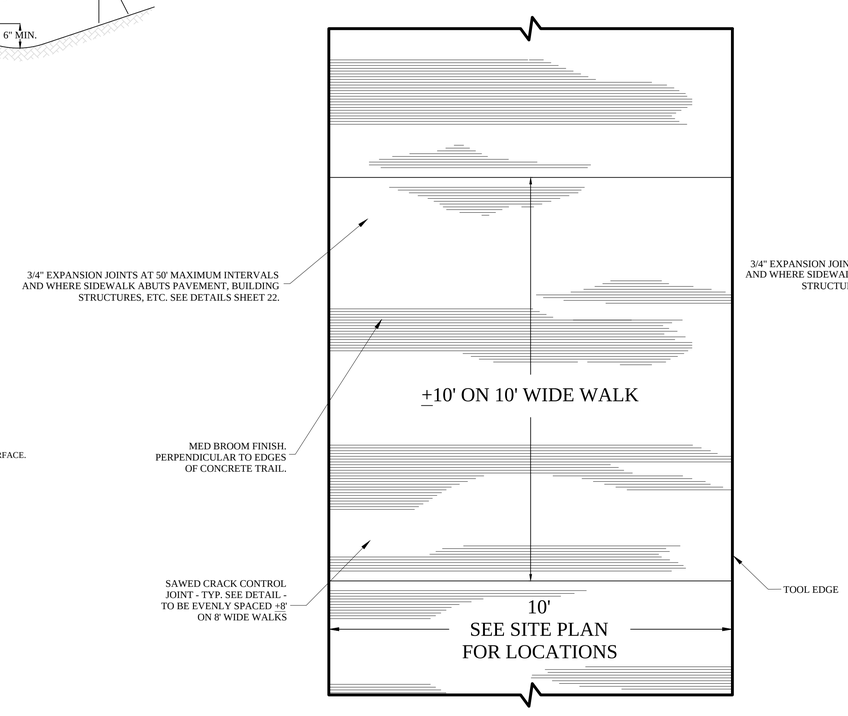
NOTES: CONCRETE NOT TO EXCEED 2% SLOPE IN ALL AREAS.

ALTER CONCRETE SECTION ELEVATION TO ALLOW CROSS DRAINAGE AS
INSTRUCTED BY THE CONSULTANT.

SECTION

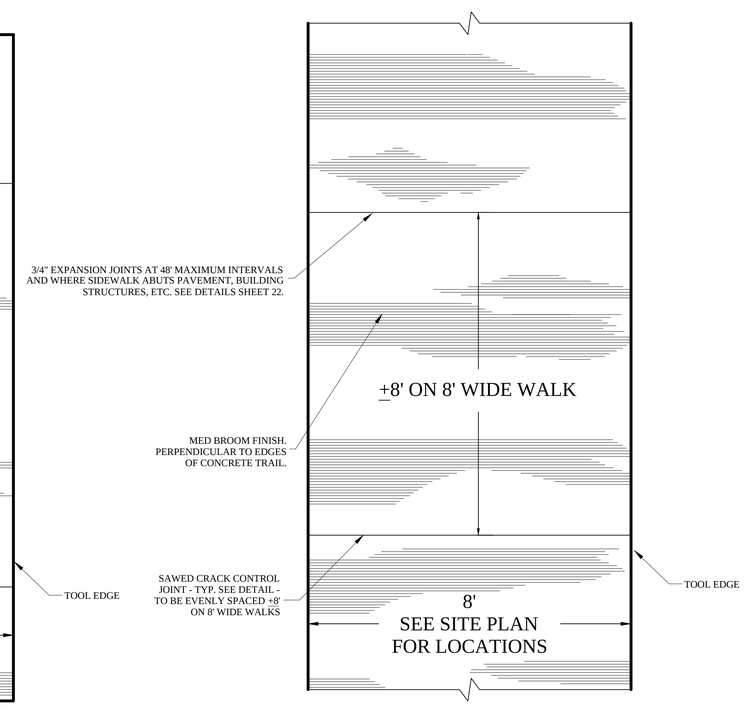
PLAZA CONCRETE DETAIL

N.T.S.



10' CONCRETE WALK - FINISH DETAIL

NOT TO SCALE



8' CONCRETE WALK - FINISH DETAIL

NOT TO SCALE

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2-24-17

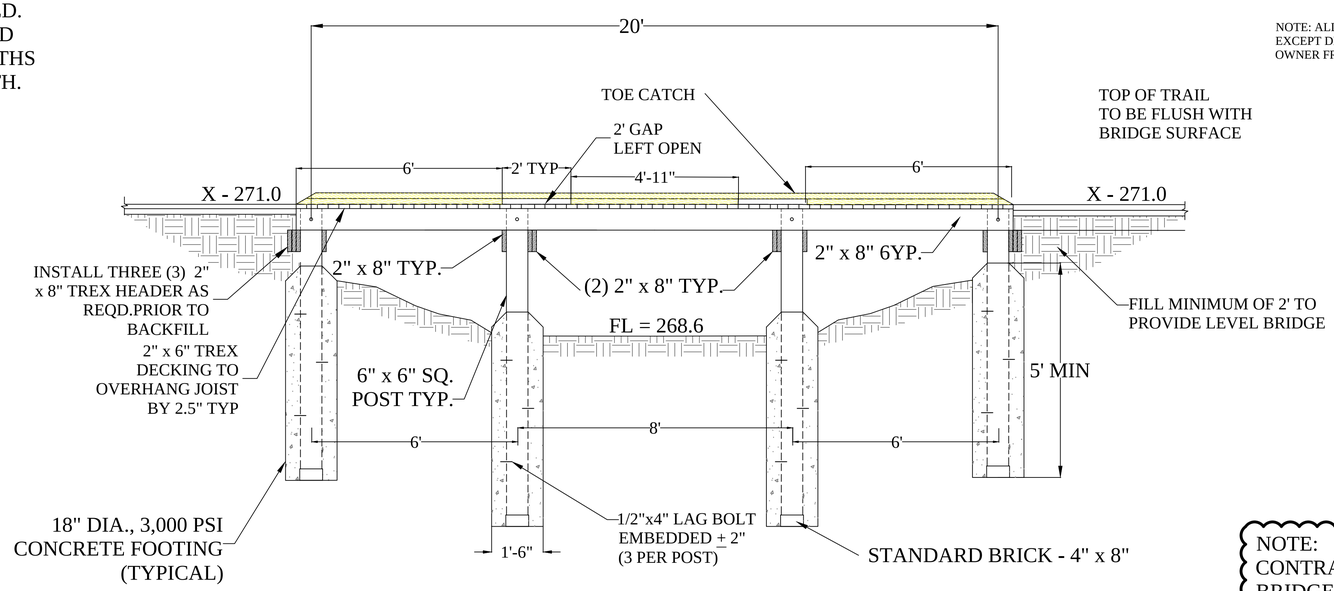
MHS
PLANNING & DESIGN, LLC

TRAIL DETAILS
THE GREEN
KEEP LONGVIEW BEAUTIFUL
CITY OF LONGVIEW, TEXAS

DRAWN:	HNR
CHECKED:	MHS
DATE:	FEB 2017
SCALE:	AS SHOWN
JOB NO.:	15-026

NOTE: EXISTING GROUND NOT DEPICTED. ACTUAL CONDITIONS WILL VARY. FIELD VERIFY ALL 6" x 6" SQUARE POST LENGTHS AND ENSURE MINIMUM 5' BURIED DEPTH.

NOTE: ALL LUMBER TO BE PRESSURE TREATED #2 GRADE OR BETTER EXCEPT DECK BOARDS WHICH ARE TO BE TREX ACCENTS - COLOR BY OWNER FROM STANDARDS. ALL HARDWARE TO BE STAINLESS STEEL.

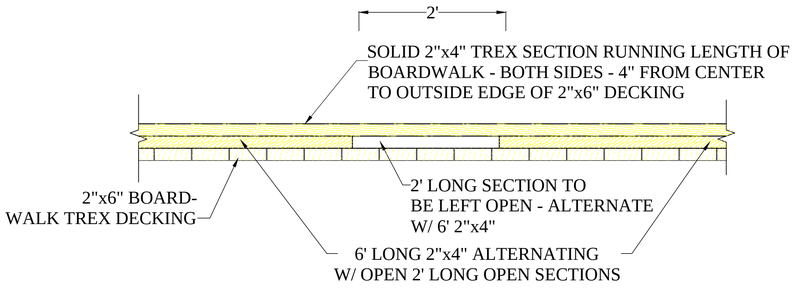


20' PEDESTRIAN BRIDGE - SIDE ELEVATION

1 REQUIRED

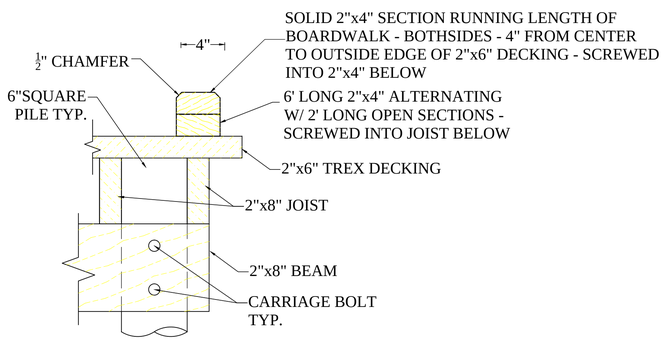
0' 2' 4'

NOTE:
CONTRACTOR TO STAKE LOCATION OF BRIDGES & TRAIL DRAINS FOR APPROVAL BY CONSULTANT PRIOR TO CONSTRUCTION.



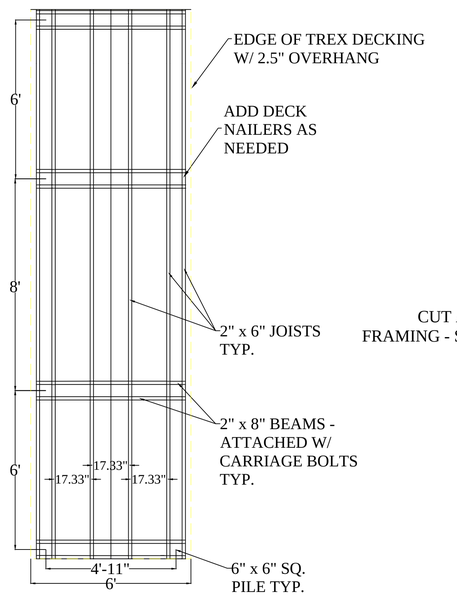
SIDE ELEVATION

BOARDWALK TREX TOE - CATCH DETAIL



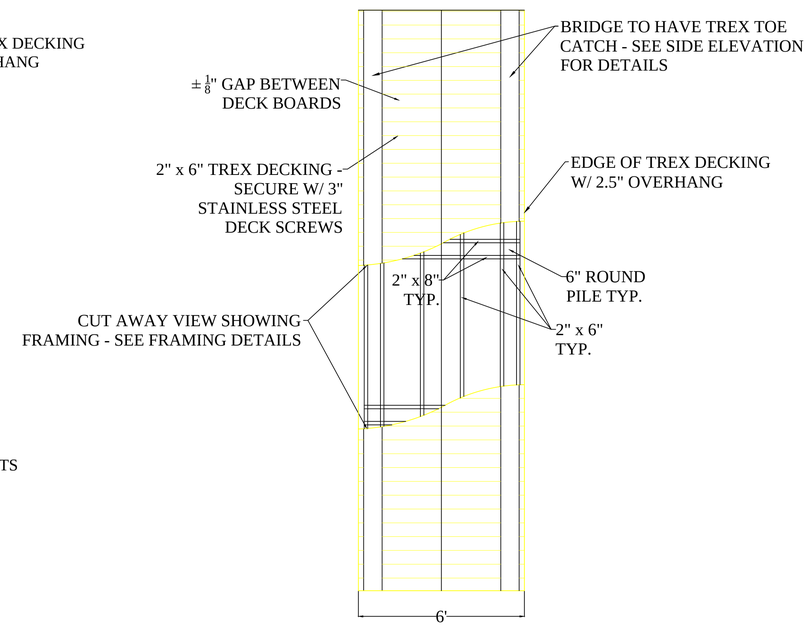
SECTION VIEW

BOARDWALK TREX TOE - CATCH DETAIL



BRIDGE FRAMING DETAIL

0' 3' 6' 9'



BRIDGE DECKING DETAIL

0' 3' 6' 9'

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LICENSED PROFESSIONAL ENGINEER
2-24-17

MHS
PLANNING & DESIGN, LLC

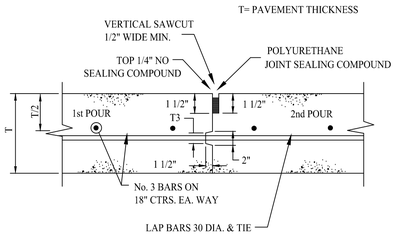
BRIDGE DETAILS

THE GREEN

KEEP LONGVIEW BEAUTIFUL

CITY OF LONGVIEW, TEXAS

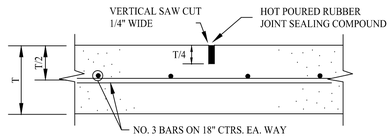
DRAWN:	HNR
CHECKED:	MHS
DATE:	FEB 2017
SCALE:	AS SHOWN
JOB NO.:	15-026



CONSTRUCTION JOINT

N.T.S.

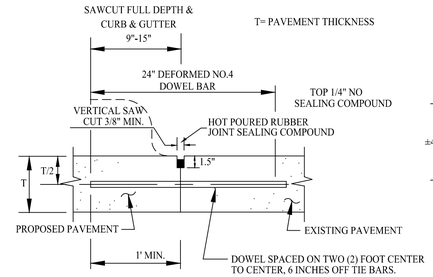
48' SPACING - 8' TRAILS
50' SPACING - 10' TRAILS
60' SPACING - 60' PARKING (MAX)



SAWED DUMMY (CONTROL) JOINT

N.T.S. MAXIMUM SPACING IS 15' CTRS. (TYP.)

NOTES:
1. SAWCUT JOINTS WITHIN 12 HOURS AFTER PLACEMENT

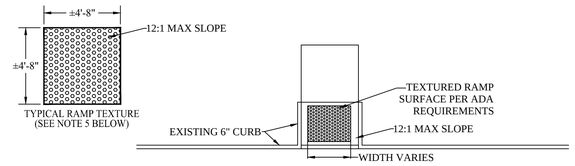


NOTE:
DOWELS AND REINFORCING BARS SHALL
BE SUPPORTED BY A REBAR CHAIR.

LONGITUDINAL BUTT JOINT

N.T.S.

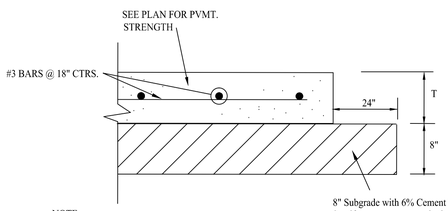
NOTES:
1. NO. 5 SMOOTH DOWEL BAR MAY BE USED IN 5 INCH AND 6 INCH PAVEMENT THICKNESS.
2. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG AND COATED IN EPOXY RESIN. DRILL HOLES SHALL BE 3/4" AND BLOWN CLEAN.
3. DRILLED BY HAND IS NOT ACCEPTABLE, PUSHING DOWEL BARS INTO GREEN CONCRETE NOT ACCEPTABLE.



NOTES:
1. RAMP CENTER TO BE PERPENDICULAR TO FACE OF CURB. A PERPENDICULAR RAMP MAY BE LOCATED WITHIN THE RADIUS OF THE CURB LINE.
2. SIDEWALK GRADE TO BE PARALLEL TO TOP OF CURB AND GUTTER.
3. SIDEWALK WIDTH AS SHOWN ELSEWHERE IN PLANS.
4. NO VERTICAL CHANGES SHALL EXCEED ¼" IN ELEVATION AT ADJOINING SURFACES.
5. DETECTABLE WARNING SURFACE TO BE ADA COMPLIANT BRICK PAVER BY PAVESTONE, PRODUCT #200 IN RIVER RED OR APPROVED EQUAL.

TYPICAL HANDICAP RAMP DETAIL

N.T.S.



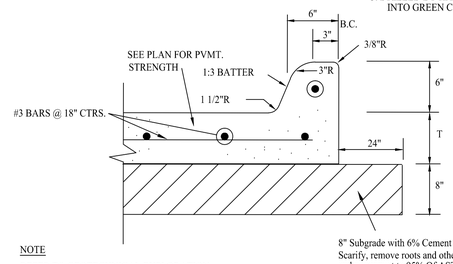
NOTE
REFER TO GEOTECHNICAL EXPLORATION
FOR FILL COMPACTION REQUIREMENTS,
PAVEMENT INSTALLATION, SUBGRADE PREP
AND ALL EARTHWORK OPERATIONS.

8" Subgrade with 6% Cement Stabilization -
Scarify, remove roots and other unsuitable debris
and recompact to 95% Of ASTM D698
between -4% and +1% Optimum Moisture Content

T= PAVEMENT THICKNESS

PAVEMENT SECTION W/O CURB

N.T.S.



NOTE
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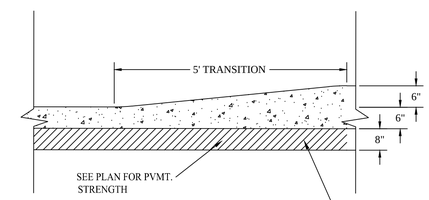
8" Subgrade with 6% Cement Stabilization -
Scarify, remove roots and other unsuitable debris
and recompact to 95% Of ASTM D698
between -4% and +1% Optimum Moisture Content

T= PAVEMENT THICKNESS

PAVEMENT SECTION WITH 6" CURB

N.T.S.



NOTE
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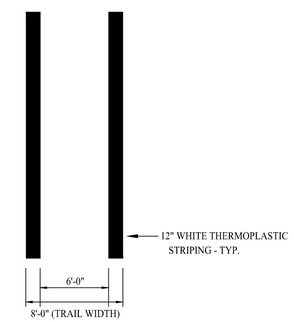
PAVEMENT INSTALLATION, SUBGRADE PREP
AND ALL EARTHWORK OPERATIONS.

8" Subgrade with 6% Cement Stabilization -
Scarify, remove roots and other unsuitable debris
and recompact to 95% Of ASTM D698
between -4% and +1% Optimum Moisture Content

T= PAVEMENT THICKNESS

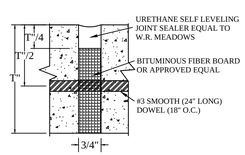
6" CURB TRANSITION DETAIL

N.T.S.



CROSSWALK STRIPING DETAIL

N.T.S.



EXPANSION JOINT DETAIL

N.T.S.

48' SPACING - 8' TRAILS
50' SPACING - 10' TRAILS
60' SPACING - 60' PARKING

COLORS:
LETTERS AND BORDER - GREEN
SYMBOL ON BLUE BACKGROUND
SIGN BACKGROUND - WHITE

NOTES:
1. SPACING BETWEEN LETTERS, COLORS, AND PROCESSES SHALL CONFORM STANDARD HIGHWAY AND SIGN DESIGNS FOR TEXAS.
2. INSTALL WHERE INDICATED ON PLANS.
3. VAN-ACCESSIBLE SIGNAGE ON VAN SPACES ONLY.

TYPICAL SIGNAGE DETAIL
TYPE I

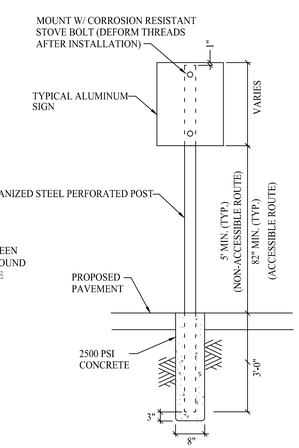
N.T.S.

COLORS:
LETTERS AND BORDER - GREEN
SYMBOL ON BLUE BACKGROUND
SIGN BACKGROUND - WHITE

1. SPACING BETWEEN LETTERS, COLORS, AND PROCESSES SHALL CONFORM STANDARD HIGHWAY AND SIGN DESIGNS FOR TEXAS.
2. INSTALL WHERE INDICATED ON PLANS.
3. VAN-ACCESSIBLE SIGNAGE ON VAN SPACES ONLY.

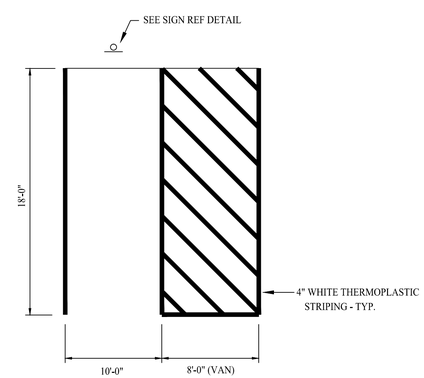
TYPICAL SIGNAGE DETAIL
TYPE II

N.T.S.



TYPICAL SIGNAGE MOUNTING DETAIL

N.T.S.



HANDICAP STRIPING DETAIL

N.T.S.

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LICENSED
PROFESSIONAL ENGINEER
2-24-17

MHS
PLANNING & DESIGN, LLC

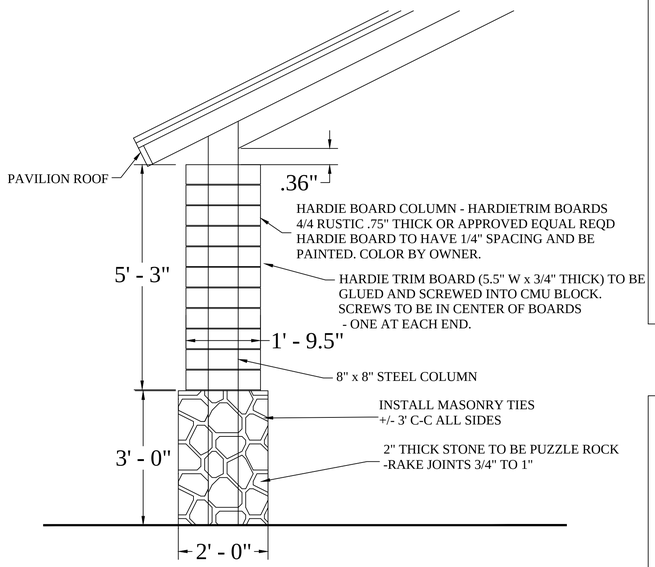
PAVING DETAILS
THE GREEN
KEEP LONGVIEW BEAUTIFUL
CITY OF LONGVIEW, TEXAS

DRAWN:	WHS
CHECKED:	MHS
DATE:	FEB 2017
SCALE:	N/A
JOB NO.:	15-026

PAVILION SHALL BE 35' X 50' NORTHWEST MODEL BY CLASSIC RECREATION OR APPROVED EQUAL. PAVILION PLANS TO BE SEALED BY A REGISTERED ENGINEER IN THE STATE OF TEXAS.

CONTACT: KIM NEAL
SITE SOURCE, INC.
972-539-4024

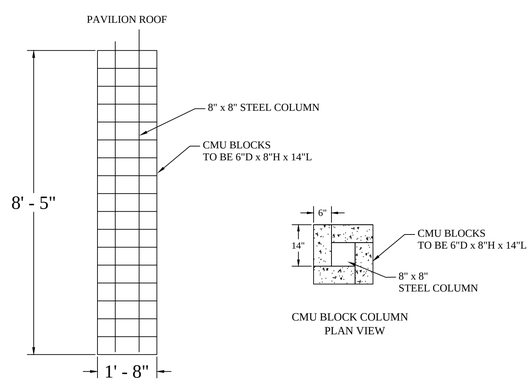
SEE STRUCTURAL SHEETS FOR FOUNDATION & FOOTING DETAILS



PAVILION COLUMN DETAIL

1" = 1'

COLUMN VENEER - BID ALTERNATE



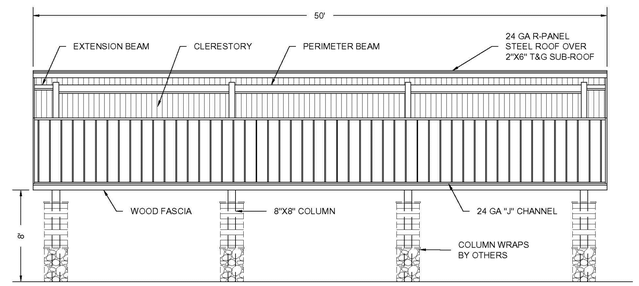
CMU BLOCK PAVILION COLUMN DETAIL

1" = 1'

COLUMN VENEER - BID ALTERNATE

NOT FOR CONSTRUCTION

CRS, INC.

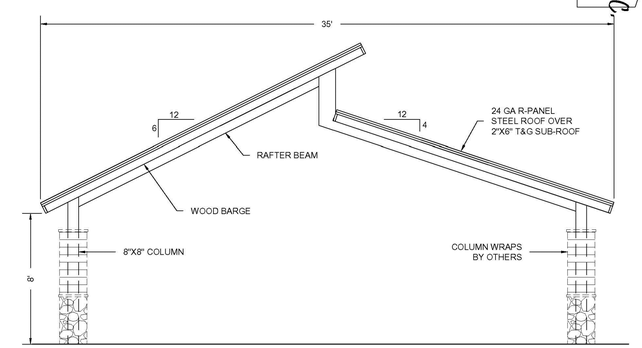


ELEVATION 35'X50' NORTHWEST MODEL

NTS

NOT FOR CONSTRUCTION

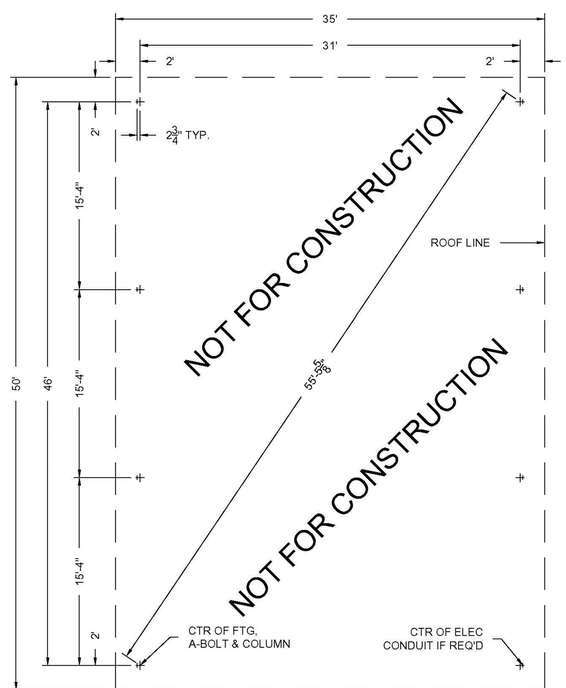
CRS, INC.



END ELEVATION 35'X50' NORTHWEST MODEL

NTS

CRS, INC.

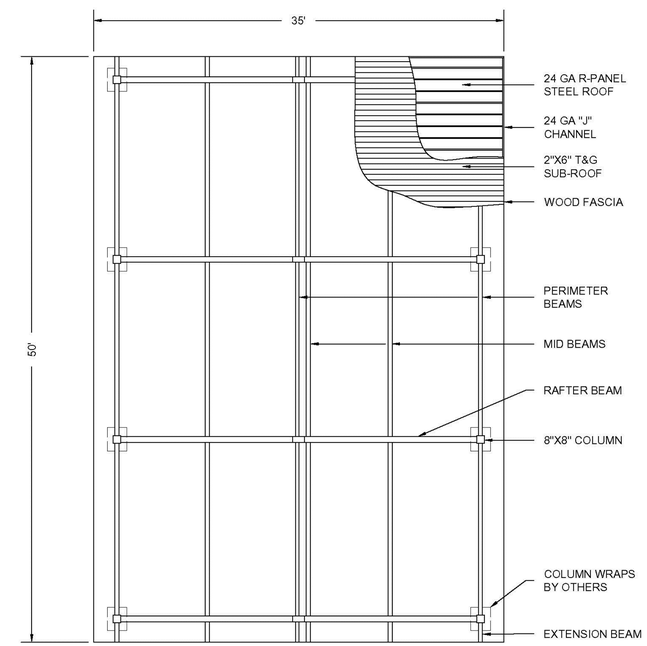


LAYOUT PLAN 35'X50' NORTHWEST MODEL

NTS

CRS, INC.

NOT FOR CONSTRUCTION



PLAN VIEW 35'X50' NORTHWEST MODEL

NTS

REVISIONS:

212 West Ninth Street
Tyler, Texas 75701
903-597-6606
903-597-0517 Fax
TBPE No. F-14571

STATE OF TEXAS
WILLIAM H. SPENCER
107759
LICENSED
PROFESSIONAL ENGINEER
2-24-17

MHS
PLANNING & DESIGN, LLC

PAVILION DETAILS

THE GREEN

KEEP LONGVIEW BEAUTIFUL

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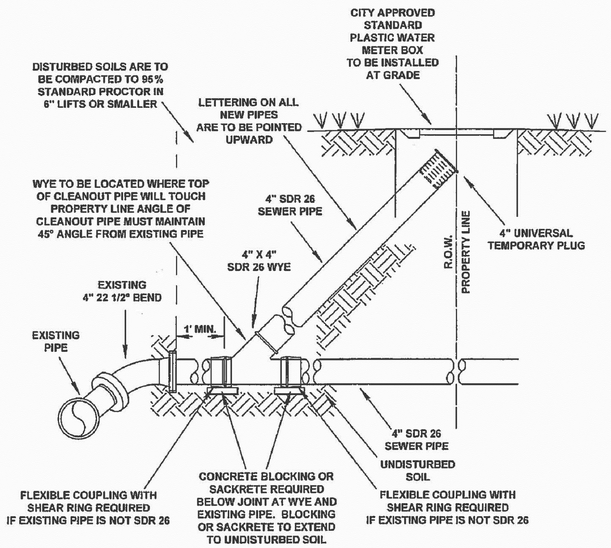
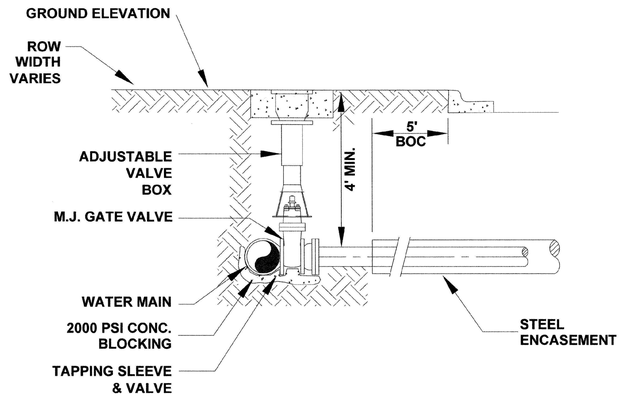


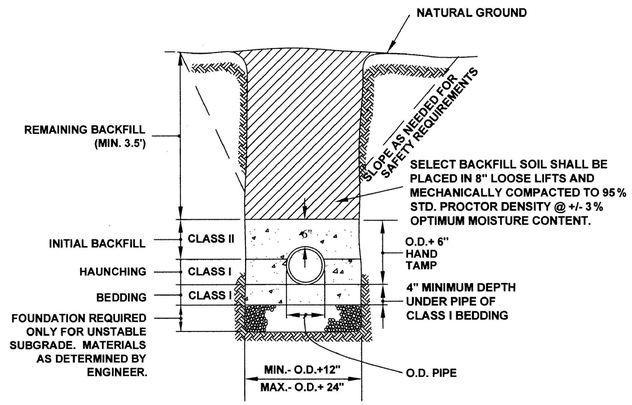
NOTE:
SDR-26 PIPE REQUIRES BEVELING OF END TO BE INSTALLED IN SDR-26 GASKETED WYE

STANDARD CONSTRUCTION DETAIL DEVELOPMENT SERVICES ENGINEERING DIVISION CITY OF LONGVIEW, TEXAS	STANDARD SANITARY SEWER CLEANOUT INSTALLATION IN R.O.W. ON EXISTING SERVICE	SEWER DATE: FEB. 2011



NOT TO SCALE

STANDARD CONSTRUCTION DETAIL DEVELOPMENT SERVICES ENGINEERING SERVICES DEPARTMENT CITY OF LONGVIEW, TEXAS	TYPICAL WATER MAIN TAP	Water Date: MARCH 2011

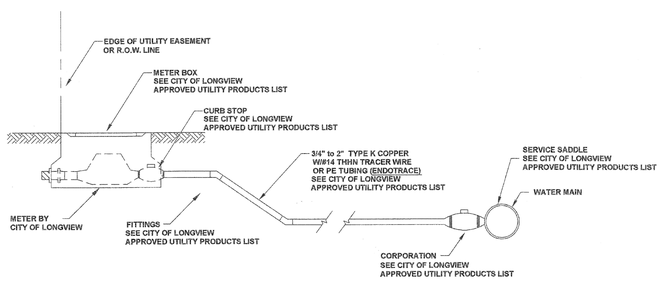


CLASS I
LOW P.I. GRANULAR MATERIAL (CLEAN SAND) UP TO TO 3/4"-1 1/2" GRADED STONE INCLUDING A NUMBER OF FILL MATERIALS THAT HAVE REGIONAL SIGNIFICANCE (CORAL, SLAG, CINDERS, STONE/SHELL)

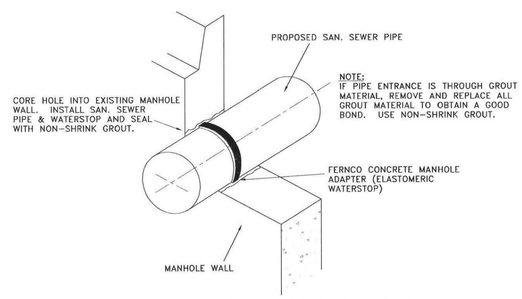
CLASS II
SUITABLE NATIVE MATERIAL INCLUDING FINE SANDS, SANDY CLAY MIXTURE AND GRAVEL CLAY MIXTURE.

NOT TO SCALE

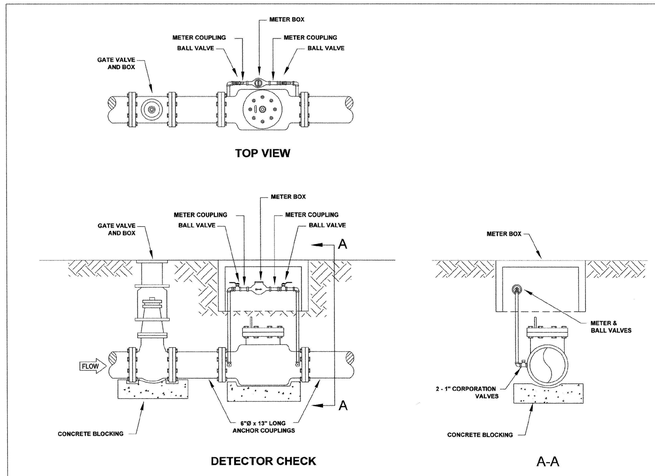
STANDARD CONSTRUCTION DETAIL DEVELOPMENT SERVICES ENGINEERING SERVICE DEPARTMENT CITY OF LONGVIEW, TEXAS	TYPICAL TRENCH WIDTH AND EARTH EMBEDMENT	Sewer Water DATE: JAN. 2012



STANDARD CONSTRUCTION DETAIL DEVELOPMENT SERVICES ENGINEERING DIVISION CITY OF LONGVIEW, TEXAS	TYPICAL WATER SERVICE	WATER DATE: JULY 2011



TIE-IN TO EXIST. MANHOLE DETAIL
N.T.S.



STANDARD CONSTRUCTION DETAIL DEVELOPMENT SERVICES ENGINEERING SERVICE DEPARTMENT CITY OF LONGVIEW, TEXAS	DETECTOR CHECK (AMES 1000 DCV)	WATER DATE: MAR. 2012

REVISIONS:

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Tyler, Texas 75701
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TBPE No. F-14571

STATE OF TEXAS
WILLIAM H. SPENCER
107759
LICENSED
PROFESSIONAL ENGINEER
2-24-17

MHS
PLANNING & DESIGN, LLC

UTILITY DETAILS
THE GREEN
KEEP LONGVIEW BEAUTIFUL
CITY OF LONGVIEW, TEXAS

DRAWN:	WHS
CHECKED:	MHS
DATE:	FEB 2017
SCALE:	AS SHOWN
JOB NO.:	15-026

GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF LONGVIEW PLANS AND SPECIFICATIONS, EXCEPT AS NOTED HEREIN AND APPROVED BY THE CITY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY STANDARDS, TEXAS STATE LAW, AND O.S.H.A. STANDARDS FOR ALL EXCAVATION IN EXCESS OF FIVE FEET IN DEPTH.
3. THE LOCATION OF ALL UTILITIES LOCATED ON THESE PLANS ARE TAKEN FROM EXISTING PUBLIC RECORDS OR PROVIDED BY THOMPSON & ASSOCIATES INC. THE EXACT LOCATION AND ELEVATION OF ALL PUBLIC UTILITIES MUST BE DETERMINED BY THE CONTRACTOR. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT.
4. EROSION CONTROL SHALL BE REQUIRED DURING ALL PHASES OF CONSTRUCTION.
5. ALL PROPOSED GRADES IN LANDSCAPE AREAS ARE FINISHED GRADE ELEVATIONS. CONTRACTOR TO ALLOW FOR CONCRETE, SEEDING OR SODDING OF THESE AREAS.
6. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CONTRACT DOCUMENTS, TECHNICAL SPECIFICATIONS, OR CITY STANDARDS FOR THE PROJECT UNLESS OTHERWISE INDICATED IN THIS PLAN SET.
7. ALL FACILITIES SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE CITY OF LONGVIEW STANDARD CONSTRUCTION DETAILS.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES DURING THE CONSTRUCTION OF THE PROJECT. ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC. MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING CONSTRUCTION OF THE PAVING FOR THIS DEVELOPMENT.
9. DRAINAGE SHOULD BE MAINTAINED AWAY FROM THE FOUNDATIONS, BOTH DURING AND AFTER CONSTRUCTION.
10. BACKFILL FOR UTILITY LINES SHALL CONFORM TO THE CITY'S STANDARD DETAIL. UTILITY DITCHES SHOULD BE VISUALLY INSPECTED DURING THE EXCAVATION PROCESS TO ENSURE THAT UNDESIRABLE FILL IS NOT USED.
11. IF ROCK IS ENCOUNTERED IN THE TRENCH, ROCK SPOILS SHALL NOT BE USED IN THE UPPER 1.5' OF THE TRENCH.
12. ALL SIDEWALK AND CROSSWALK SLOPES SHALL CONFORM TO ADA REQUIREMENTS AS FOLLOWS:
    1:20 LONGITUDINAL (ALONG THE WALK) MAX
    1:50 TRAVERSE (ALONG THE WALK) MAX
13. ALL PAVING AND EARTHWORK OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS PER THE GEOTECHNICAL INVESTIGATION (PROJECT NO. LE16-005) BY ALLIANCE GEOTECHNICAL GROUP (FEBRUARY 2016).

REFERENCE BENCHMARK:

THE BOUNDARY SURVEY, TOPOGRAPHIC SURVEY, BENCHMARKS AND LOCATION OF ALL EXISTING UTILITIES, STRUCTURES, TREES AND IMPROVEMENTS WERE PROVIDED BY THOMPSON & ASSOCIATES INC AND ARE ON THE CITY OF LONGVIEW'S STANDARD BENCHMARK SYSTEM.

T.B.M. #1 - 2" SQUARE CUT IN BACK OF CURB BEING 1.25' WEST OF SOUTHEAST CORNER OF BACK OF CURB
ELEVATION = 274.31'
X = 3,123,789.40
Y = 6,883,487.17

T.B.M. #2 - RAILROAD SPIKE SET ON WEST FACE OF LIGHT POLE
ELEVATION = 275.37'
X = 3,123,769.4'
Y = 6,883,424.7'

T.B.M. #3 - RAILROAD SPIKE SET ON NORTHEAST FACE OF POWER POLE
ELEVATION = 272.44'
X = 3,123,515.2'
Y = 6,883,062.2'

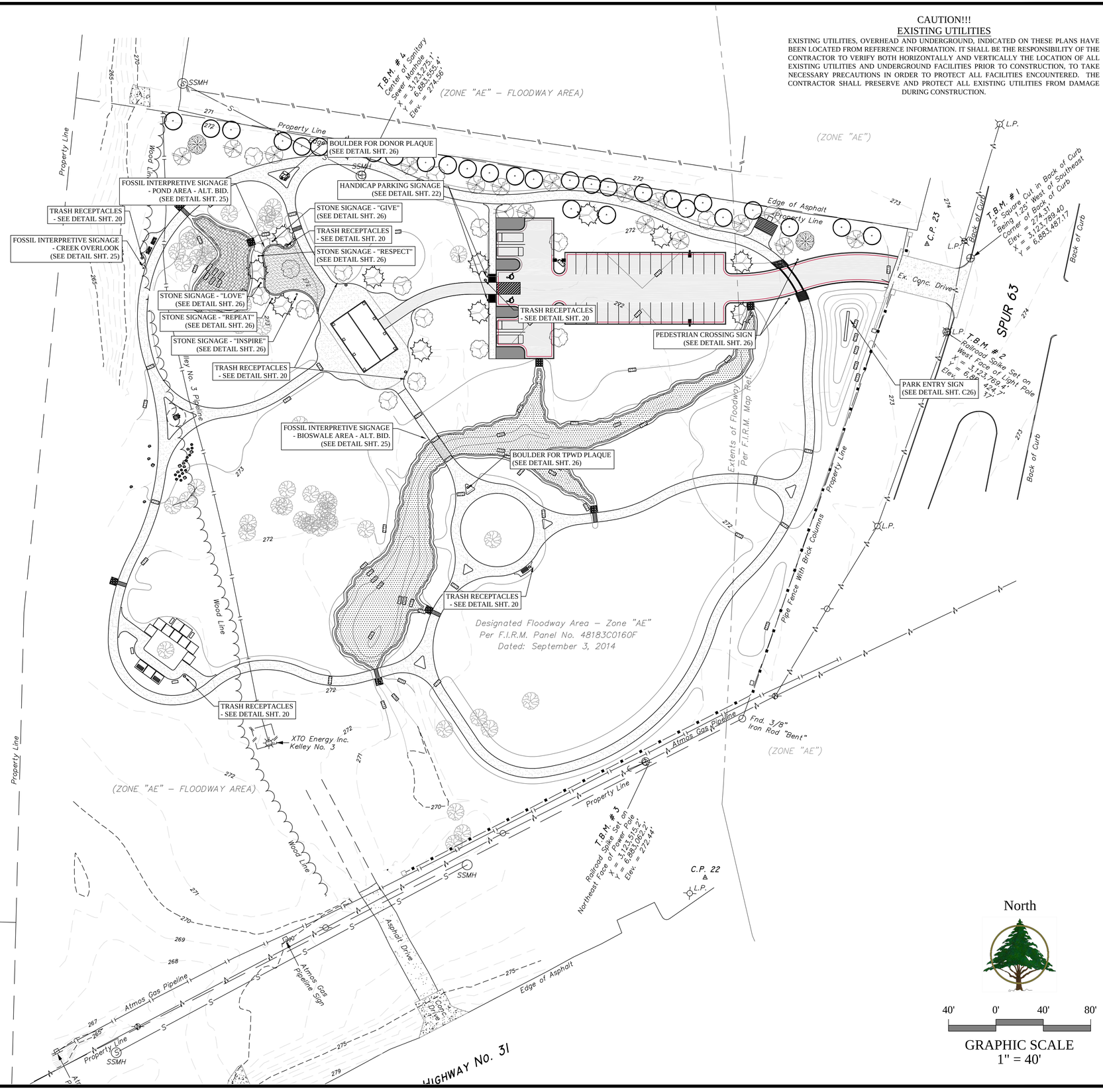
T.B.M. #4 - SOUTH RIM OF SANITARY SEWER MANHOLE
ELEVATION = 274.55'
X = 3,123,275.1'
Y = 6,883,555.4'

LEGEND

- 5" CONCRETE TRAIL - 4000 PSI CONCRETE PAVEMENT W/ #3 BARS @ 18" O.C.E.W OVER 6" COMPACTED SUBGRADE (SEE SHT. 22)
- 6" CONCRETE - 4000 PSI CONCRETE PAVEMENT W/ #3 BARS @ 18" O.C.E.W OVER 8" CEMENT TREATED SUBGRADE (SEE SHT. 22)
- EXISTING PAVEMENT
- 4" DECOMPOSED GRANITE PAD OVER 6" COMPACTED SUBGRADE (SEE SHT. L5)
- EXISTING TREE (TO REMAIN)
- PROPOSED TREE - 6 DIFFERENT TREE SYMBOLS (SEE SHT. L1)
- HANDICAP SIGN (TYP)
- NO CURB (SEE SHT. C22)
- CURB (SEE SHT. C22)
- 3' SLOT DRAIN (SEE SHT. C8)
- BRICK PAVERS (SEE SHT. C20)
- 6" ROCK RIP RAP

CAUTION!!!
EXISTING UTILITIES

EXISTING UTILITIES, OVERHEAD AND UNDERGROUND, INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BOTH HORIZONTALLY AND VERTICALLY THE LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION, TO TAKE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION.



North

40' 0' 40' 80'

GRAPHIC SCALE
1" = 40'

REVISIONS:

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Tyler, Texas 75701
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SIGNAGE PLAN
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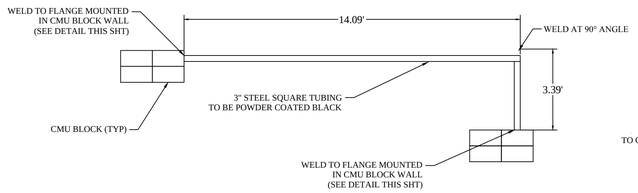
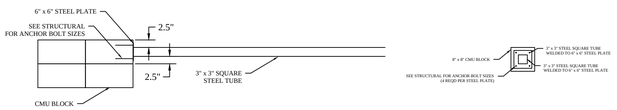
ALL FINAL SIGN LAYOUTS AND TEXT TO BE APPROVED BY CONSULTANT AND CITY REPRESENTATIVE PRIOR TO INSTALLATION.



TO CONTRACTOR FOR CORRECT FONT.

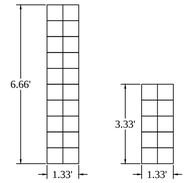
STEEL CROSS BAR DETAIL

ONE REQUIRED 1" = 3'



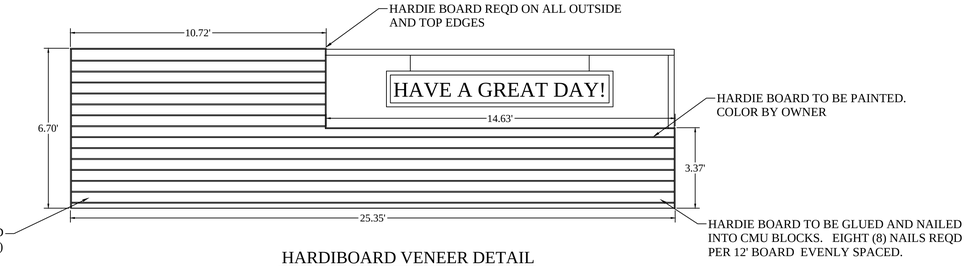
STEEL CROSS BAR CONNECTION DETAIL

ONE REQUIRED 1" = 2'



CONCRETE BLOCK WALL DETAIL

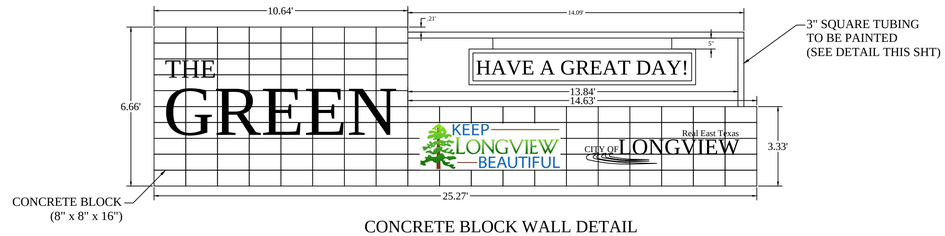
ONE REQUIRED PROFILE



HARDIBOARD VENEER DETAIL

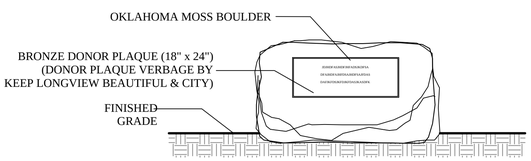
ONE REQUIRED 1" = 3'

HARDIE BOARD - HARDIETRIM BOARDS
4/4 RUSTIC .75" THICK OR APPROVED EQUAL.



CONCRETE BLOCK WALL DETAIL

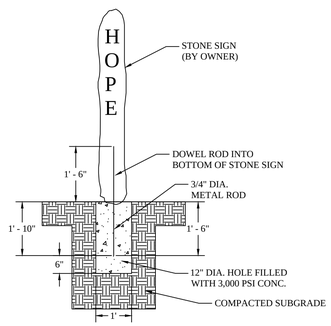
ONE REQUIRED 1" = 3'



BOULDER FOR LEDCO DONOR PLAQUE

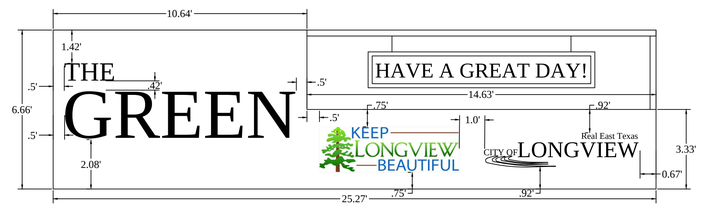
SEE SITE PLAN FOR LOCATION.
BOULDER AND BOULDER LOCATION TO BE APPROVED BY CITY.
KEEP LONGVIEW BEAUTIFUL & CONSULTANT PRIOR TO INSTALLATION.

NOTE: 36" L x 30" D x 30" H BOULDER W/ FLAT SURFACE LARGE ENOUGH TO MOUNT BRONZE DONOR PLAQUE. SANDBLAST AREA FOR PLAQUE TO ½" DEEP RECESS AND MOUNT PER MANUFACTURERS INSTRUCTIONS.



STONE SIGN DETAIL

SEE SITE PLAN FOR LOCATION (5 REQD)
1" = 2'



NOTE: INDIVIDUAL LETTER SIZES :
"THE" - 9"
"GREEN" - 24"
"LONGVIEW" - 12"
"KEEP", "BEAUTIFUL", "CITY OF", "REAL EAST TEXAS" - 8"
FABRICATED ALUMINUM LETTERS 2" THICK

LETTERING DETAIL

ONE REQUIRED 1" = 3'

NOTE: APPROX. 2" BETWEEN LETTERS.
FIELD VERIFY & SPACE EVENLY FOR BEST FIT.

NOTE: ALL LETTERS TO BE PAINTED. COLOR BY OWNER

NOTE: TREE TO BE ONE PIECE AND 2" THICK.
BLUE CURVED LINES TO THE THREE (3) INDIVIDUAL PIECES AND 2" THICK.

NOTE: KEEP LONGVIEW BEAUTIFUL & CITY LOGO TO BE PROVIDED TO CONTRACTOR FOR CORRECT FONT.

TPWD PERMANENT BRONZE PLAQUE

ONE REQUIRED NOT TO SCALE

PLAQUE SPECIFICATIONS

BRONZE TABLET SHALL BE AS MANUFACTURED BY THE SOUTHWELL COMPANY, P.O. BOX 299, SAN ANTONIO, TEXAS 78291-0299, OR APPROVED EQUAL. PLAQUE TO BE CAST OF VIRGIN INGOTS (85-5-5-5 STD U.S. BRONZE ALLOY.) CASTING SHALL BE FREE OF PITS AND GAS HOLES AND ALL LETTERS SHALL BE SHARP AND HAND TOOLED. BORDER AND FACES OF RAISED LETTERS ARE TO BE SATIN FINISH AND BACKGROUND IS TO BE LEATHERETTE TEXTURE.

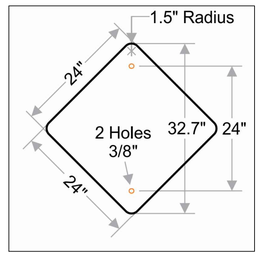
BACKGROUND SHALL BE OXIDIZED, PLAQUE SHALL BE CHEMICALLY CLEANED, AND TWO COATS OF CLEAR ACRYLIC LACQUER SHALL BE SPRAYED ON COMPLETED PLAQUE.

TABLET IS TO BE OF SIZE SHOWN ON PLANS WITH A DOUBLE LINE BORDER DESIGN. LETTER STYLE SHALL BE CLASSIC.

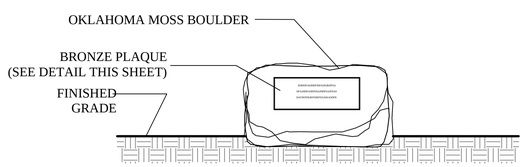
MOUNTING ATTACHMENTS FOR TABLET ON CONCRETE SHALL BE FURNISHED.

CONTRACTOR SHALL FURNISH CONSULTANT WITH RUBBING OF ACTUAL PATTERN FOR APPROVAL PRIOR TO CASTING.

SIGN TO READ 'WATCH FOR PEDESTRIANS"



PEDESTRIAN CROSSING SIGN
(2 REQD)

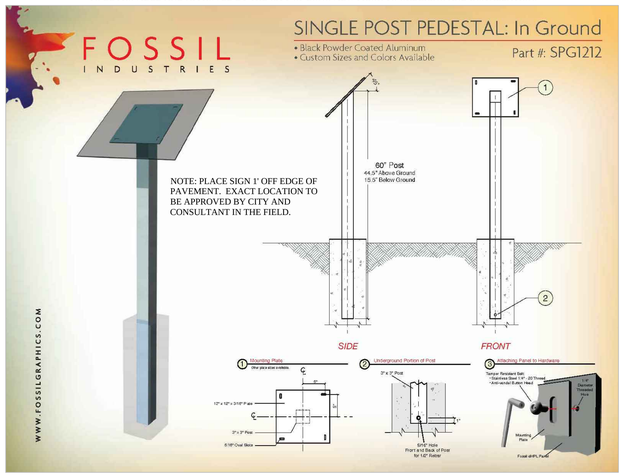


TPWD BOULDER FOR BRONZE PLAQUE

SEE SITE PLAN FOR LOCATION.
BOULDER AND BOULDER LOCATION TO BE APPROVED BY CITY,
KEEP LONGVIEW BEAUTIFUL & CONSULTANT PRIOR TO INSTALLATION.

NOTE: 30" L x 24" D x 24" H BOULDER W/ FLAT SURFACE LARGE ENOUGH TO MOUNT BRONZE PLAQUE. SANDBLAST AREA FOR PLAQUE TO ½" DEEP RECESS AND MOUNT PER MANUFACTURERS INSTRUCTIONS.

ONE (1) 14" x 18" FOSSIL INDUSTRIES 1/2" EXTERIOR PANEL REQD.
INTERPRETIVE SIGN TO REFERENCE THE IMPORTANCE OF FLOODPLAINS & FLOODWAYS - EXACT WORDING TO BE PROVIDED AND APPROVED BY THE CITY OF LONGVIEW PRIOR TO ORDERING AND INSTALLATION.



CREEK OVERLOOK INTERPRETIVE SIGNAGE

1 REQD

ALTERNATE BID: TWO (2) INTERPRETIVE FOSSIL SIGNS TO MATCH CREEK OVERLOOK SIGN. TEXT WILL VARY.

REVISIONS:

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STATE OF TEXAS
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SIGNAGE DETAILS

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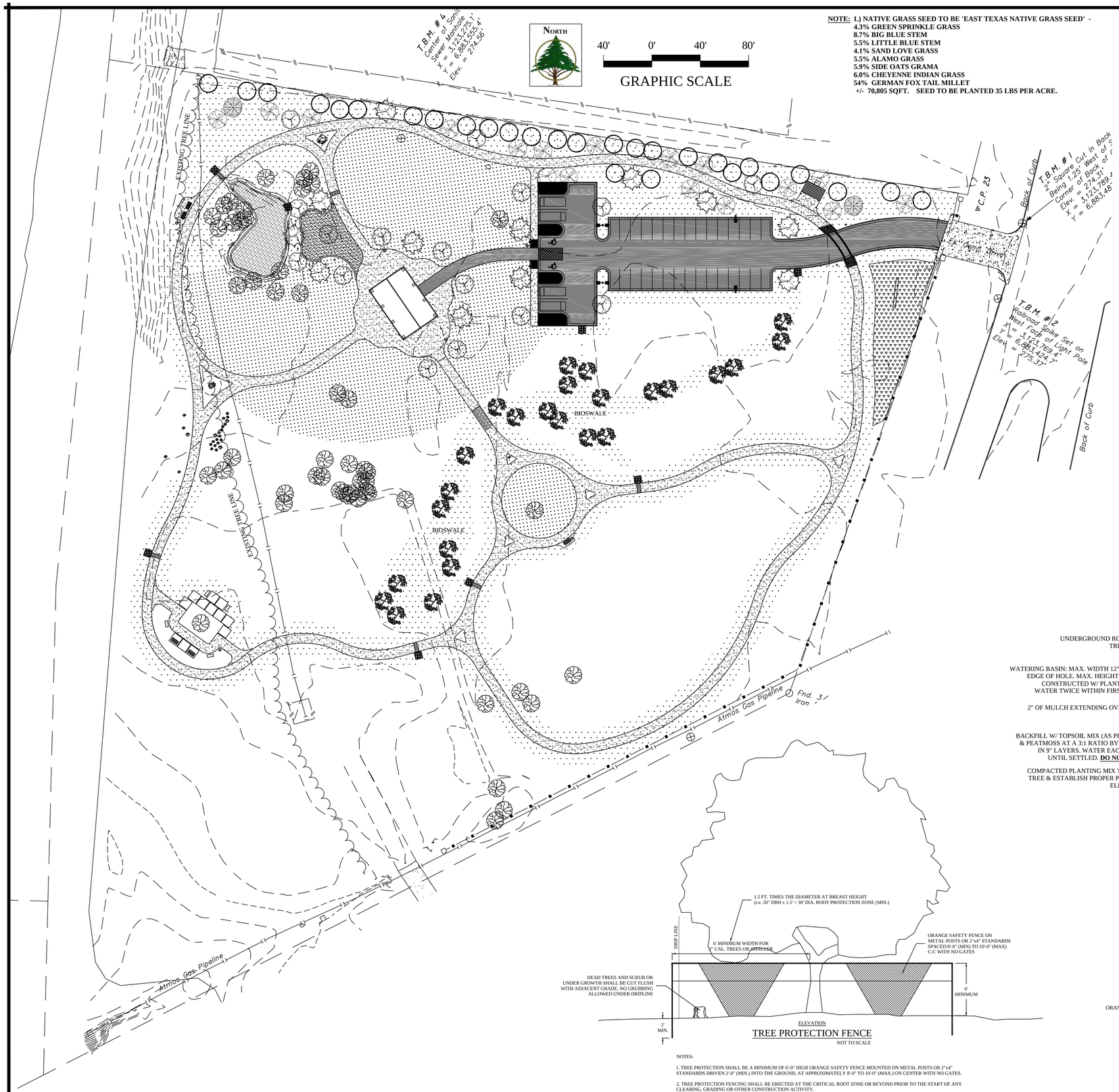


NOTE: **1.) NATIVE GRASS SEED TO BE 'EAST TEXAS NATIVE GRASS SEED' -**
4.3% GREEN SPRINKLE GRASS
8.7% BIG BLUE STEM
5.5% LITTLE BLUE STEM
4.1% SAND LOVE GRASS
5.5% ALAMO GRASS
5.9% SIDE OATS GRAMA
6.0% CHEYENNE INDIAN GRASS
54% GERMAN FOX TAIL MILLET
+/- 70,805 SQFT. SEED TO BE PLANTED 35 LBS PER ACRE.

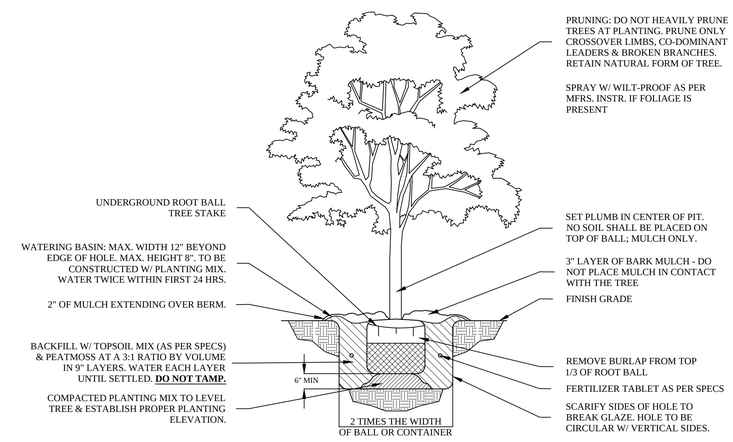
LEGEND

	QUANTITY
TEX-ACE BERMUDA	45,000 SQ. FT.
COMMON BERMUDA SOD	4,100 SQ. FT.
EAST TEXAS NATIVE SEED (SEE NOTE THIS SHT.)	71,010 SQ. FT.

TREE LEGEND

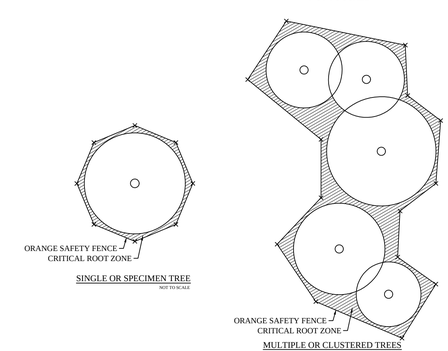
	QUANTITY
LOBLOLLY PINE - 3" CAL. *Pinus taeda*	28
CEDAR ELM - 2" CAL. *Ulmus crassifolia*	12
BUR OAK - 2" CAL. *Quercus macrocarpa*	2
SHUMARD OAK - 2" CAL. *Quercus shumardii*	15
EASTERN RED CEDAR - 2" CAL. *Juniperus virginiana*	15
RED BUD - 2" CAL. *Cercis canadensis*	2
TREES (FUTURE)	25
EXISTING TREE	

SELECT EXISTING TREES TO REMAIN IN OPEN LAWN AREA.
SEE TREE REMOVAL PLAN.



TREE PLANTING DETAIL
NOT TO SCALE

ELEVATION
TREE PROTECTION FENCE
NOT TO SCALE



SINGLE OR SPECIMEN TREE
NOT TO SCALE

MULTIPLE OR CLUSTERED TREES
NOT TO SCALE

NOTES:

1. TREE PROTECTION SHALL BE A MINIMUM OF 6'-0" HIGH ORANGE SAFETY FENCE MOUNTED ON METAL POSTS OR 2"x4" STANDARDS DRIVEN 2'-0" (MIN.) INTO THE GROUND, AT APPROXIMATELY 8'-0" TO 10'-0" (MAX.) ON CENTER WITH NO GATES.

2. TREE PROTECTION FENCING SHALL BE ERECTED AT THE CRITICAL ROOT ZONE OR BEYOND PRIOR TO THE START OF ANY CLEARING, GRADING OR OTHER CONSTRUCTION ACTIVITY.

3. TREE PROTECTION **SHALL NOT BE REMOVED** UNTIL COMPLETION OF ALL CONSTRUCTION ACTIVITY.

REVISIONS:

212 West Ninth Street
Tyler, Texas 75701
903-597-6606
903-597-0517 Fax
TBPE No. F-14571

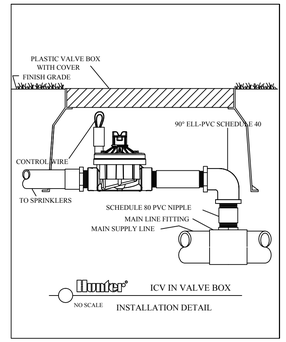
REGISTERED LANDSCAPE ARCHITECT
NICA E. PEREZ
2687
STATE OF TEXAS
2-24-17

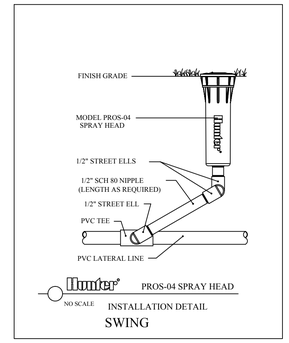
MHS
PLANNING & DESIGN, LLC

GRASSING & LANDSCAPE PLAN
THE GREEN
KEEP LONGVIEW BEAUTIFUL
CITY OF LONGVIEW, TEXAS

DRAWN:	HNR
CHECKED:	MHS
DATE:	FEB 2017
SCALE:	AS SHOWN
JOB NO.:	15-026

LEGEND	QUANTITY
MAINLINE PIPE CLASS 200 PVC 2" - INCH SIZE	430'
LATERAL PIPE CLASS 200 PVC - PURPLE PIPE (SIZED AS SHOWN)	AS SHOWN
HUNTER ELECTRONIC REMOTE CONTROL VALVE	6
ICV-201G	5
ICV-101G	1
HUNTER PGP ULTRA - NOZZLE 4.0 BLUE PRESSURE = 45 PSI RADIUS = 40 FEET FLOW = 4.0 GPM	49
HUNTER PR0S-04-MP2000 ADJUSTABLE NOZZLE PRESSURE = 40 PSI RADIUS = 19 FEET FLOW = VARIES	19
HUNTER PR0S-04-MP3000 ADJUSTABLE NOZZLE PRESSURE = 40 PSI RADIUS = 30 FEET FLOW = VARIES	36
HUNTER INDUSTRIES ICORE CONTROLLER ICORE 600PL - 6 BASE STATION	1
HUNTER RAIN/FREEZE SENSOR	1
HOSE BIB IN PURPLE VALVE BOX (NON-POTABLE WATER)	1





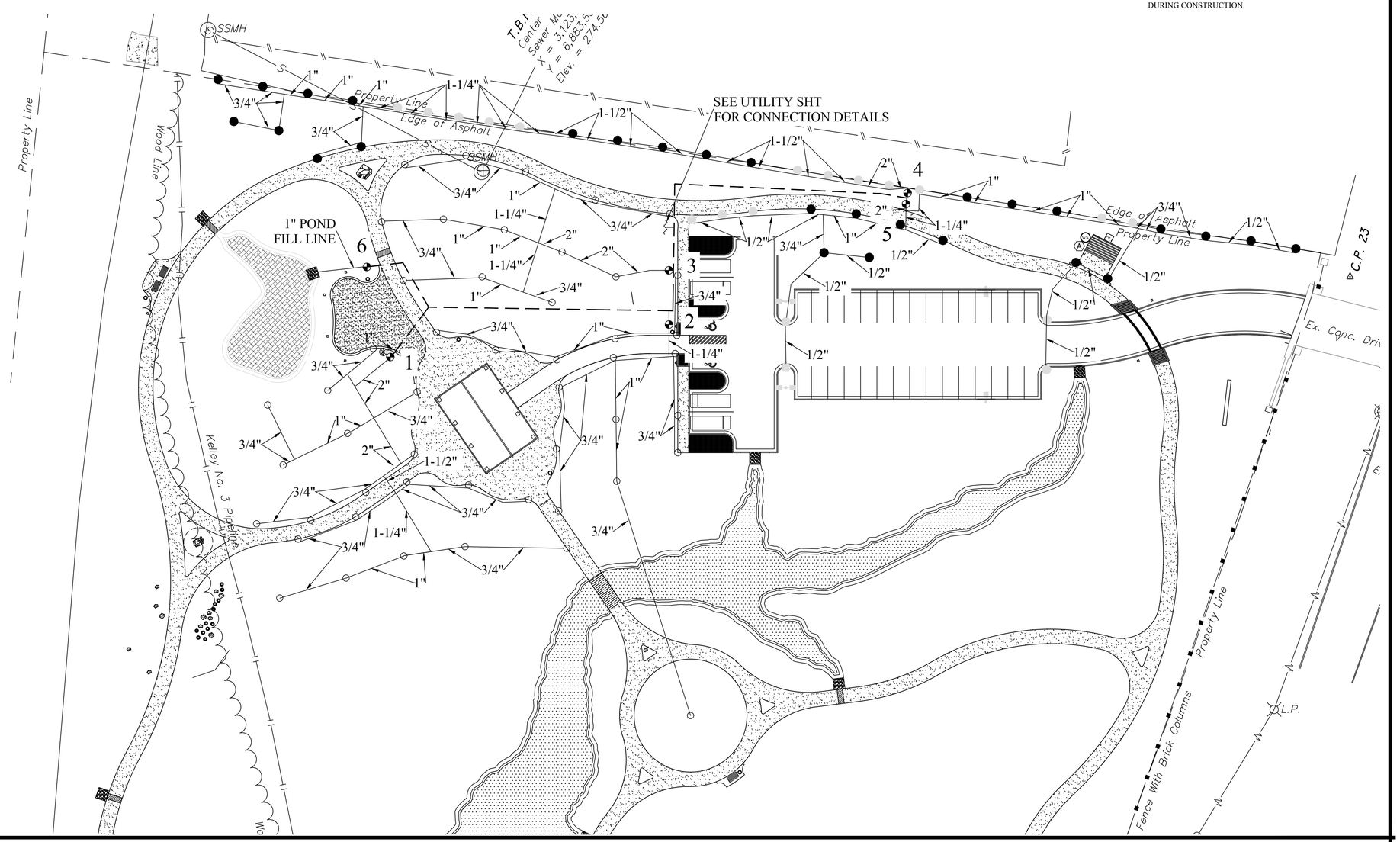
GENERAL NOTES

1. SYSTEM BASED ON +/- 100 PSI EXISTING WATER LINE. NOTIFY CONSULTANT IF MIN 65 PSI IS NOT AVAILABLE AFTER DOUBLE CHECK IS INSTALLED. SYSTEM REQUIRES 45 PSI AT HEADS TO OPERATE EFFICIENTLY.
2. SPRINKLER AND VALVE LOCATIONS ARE TO SCALE. PIPE LOCATIONS ARE DIAGRAMMATIC.
3. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISHED GRADE UNLESS OTHERWISE SPECIFIED.
4. COORDINATE ALL MAINLINE AND LATERAL PIPE INSTALLATION LOCATIONS WITH ELECTRICAL PLANS AND ADJUST AS NECESSARY.
5. IRRIGATION CONTROLLERS ARE TO BE PLACED IN THE LOCATIONS SHOWN ON THE PLANS. COORDINATE W/ ELECTRICAL DRAWINGS FOR CONTROLLER LOCATION & POWER SOURCE LOCATION.
6. EXCEPT AS OTHERWISE PROVIDED, THE CONTRACTOR SHALL PROCURE ALL PERMITS AND LICENSES, PAY ALL CHARGES AND FEES AND GIVE ALL NOTICES NECESSARY & INCIDENTAL TO THE DUE LAWFUL PROSECUTION OF THE WORK.
7. CONTRACTOR SHALL FOLLOW THE CITY OF LONGVIEW SPECIFICATIONS FOR INSTALLATION OF IRRIGATION SYSTEM.
8. CONTRACTOR SHALL NOTIFY PERTINENT UTILITY COMPANIES 48 HOURS PRIOR TO CONSTRUCTION FOR CURRENT UTILITY LOCATIONS. EXTREME CARE SHALL BE EXERCISED IN EXCAVATING AND WORKING NEAR EXISTING UTILITIES. CONTRACTOR SHALL VERIFY THE LOCATION & CONDITION OF ALL UTILITIES AND BE RESPONSIBLE FOR DAMAGE TO ANY UTILITIES.
9. THE CONTRACTOR SHALL AT ALL TIMES PROTECT HIS WORK FROM DAMAGE & THEFT & REPLACE ALL DAMAGED OR STOLEN PARTS UNTIL THE WORK IS ACCEPTED IN WRITING BY OWNER.
10. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE SPRINKLER AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES, OR DIFFERENCES IN THE AREAS DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.

CAUTION!!!
EXISTING UTILITIES

EXISTING UTILITIES, OVERHEAD AND UNDERGROUND, INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BOTH HORIZONTALLY AND VERTICALLY THE LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION, TO TAKE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION.

ZONE	FLOW (GPM)	VALVE
1	55.00	2"
2	39.64	2"
3	38.00	2"
4	33.96	2"
5	34.72	2"
6	16.00	1"



NORTH

30' 0' 30' 60'

GRAPHIC SCALE

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STATE OF TEXAS
HUNTER N. RUSH
LICENSED
PROFESSIONAL ENGINEER
02-21-2017

MHS
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IRRIGATION DESIGN
THE GREEN
KEEP LONGVIEW BEAUTIFUL
CITY OF LONGVIEW, TEXAS

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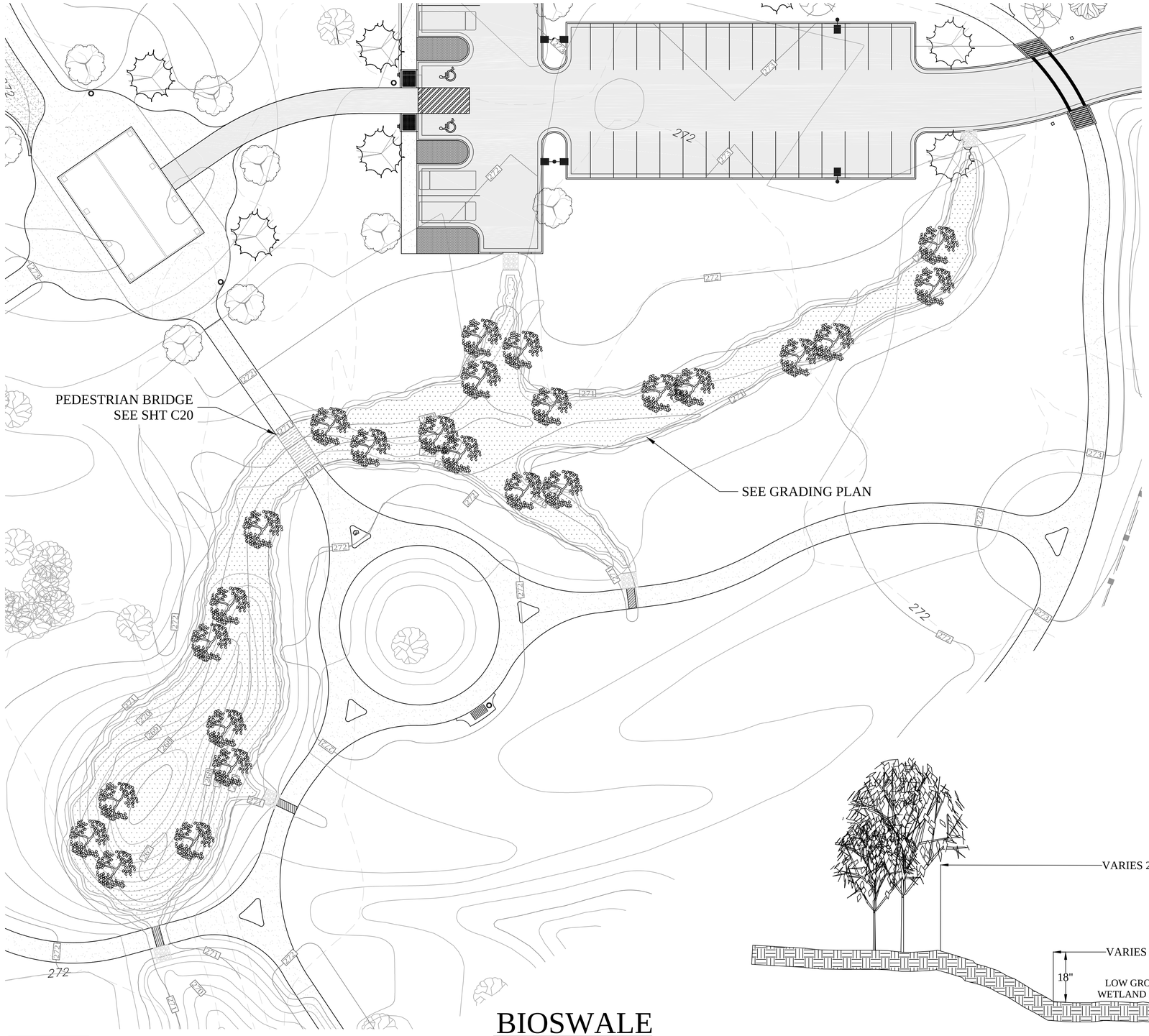
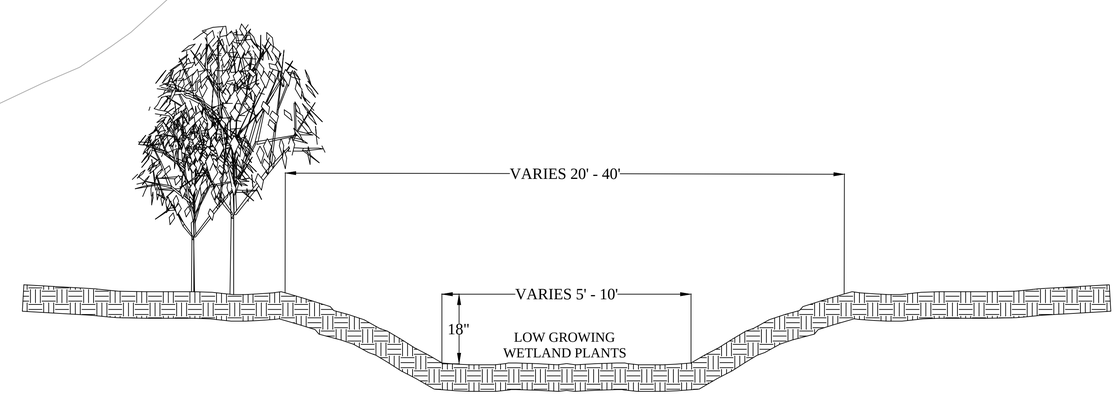


BIOSWALE PLANTINGS

	QUANTITY
SWAMP MILKWEED - 1 GAL. Asclepias incarnata	100
BUTTERFLY WEED - 1 GAL. *Asclepias tuberosa*	100

FUTURE TREES PROVIDED & INSTALLED BY OWNER



BIOSWALE SECTION

NOT TO SCALE

BIOSWALE

20' 0' 20' 40'

GRAPHIC SCALE

NORTH

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REGISTERED LANDSCAPE ARCHITECT
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2687
STATE OF TEXAS
2.24.17

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BIOSWALE DETAILS

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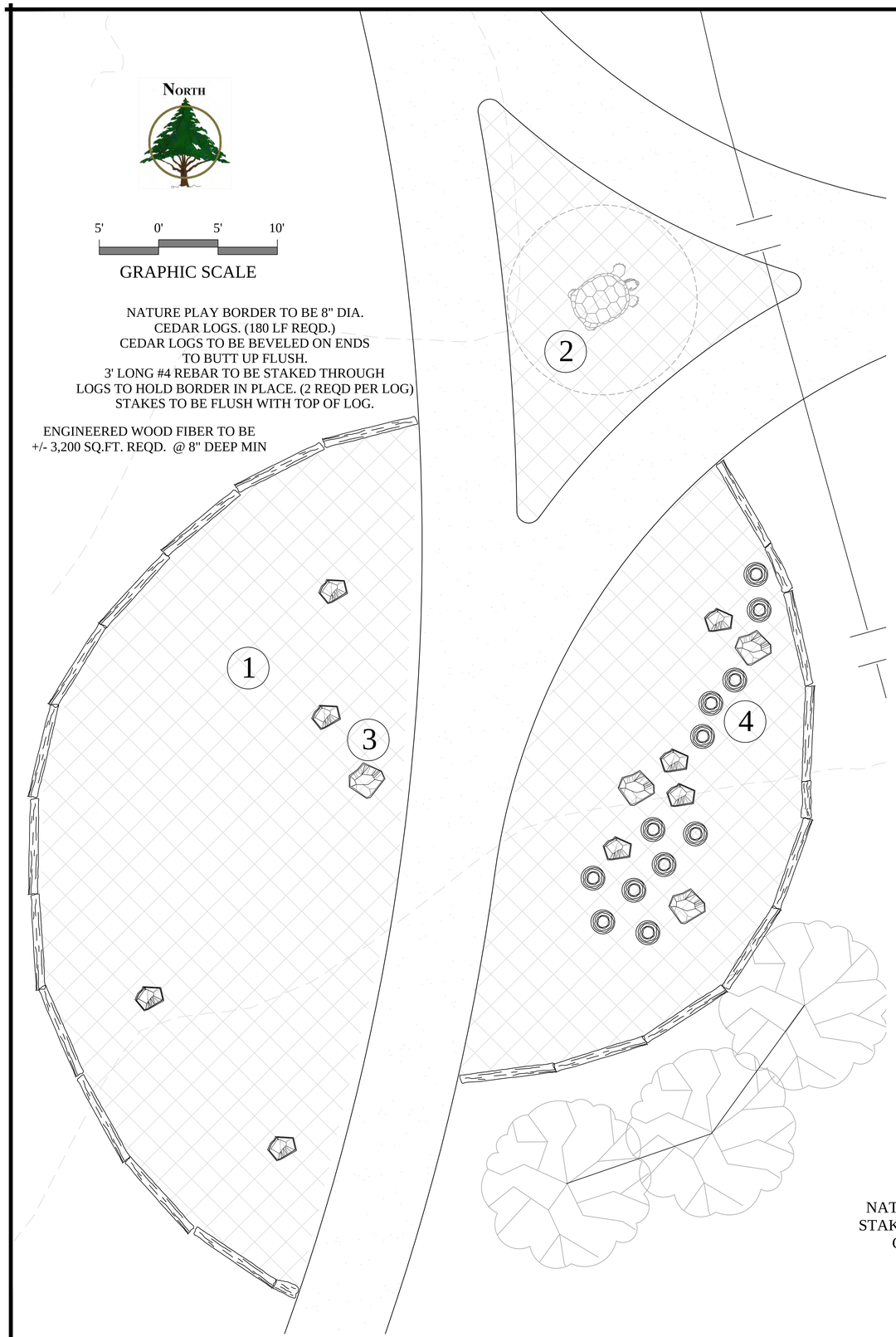
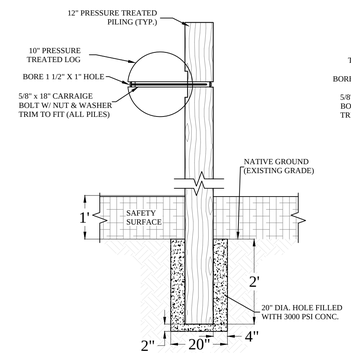


NATURE PLAY ELEMENTS

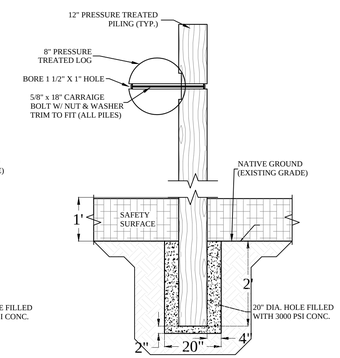
1. Custom Log Climber - See Detail this SHT (1 REQD.)
2. Cemrock - Tortise Climber
3. Boulders (18" min., 36" max.: 12 REQD.)
4. Cedar Logs -12" dia. x 8' Long (3 REQD) & 10" dia. x 8' Long (3 REQD) - See note this SHT

NOTE: ENGINEERED WOOD FIBER (3,200 SQFT) FROM GAMETIME OR APPROVED EQUAL.

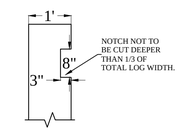
NOTE: CEDAR LOGS TO BE CUT IN HALF AND BURIED VERTICALLY AT VARYING HEIGHTS.
MIN HEIGHT 8" - MAX HEIGHT 24"



LOG CLIMBER DETAIL
NO SCALE

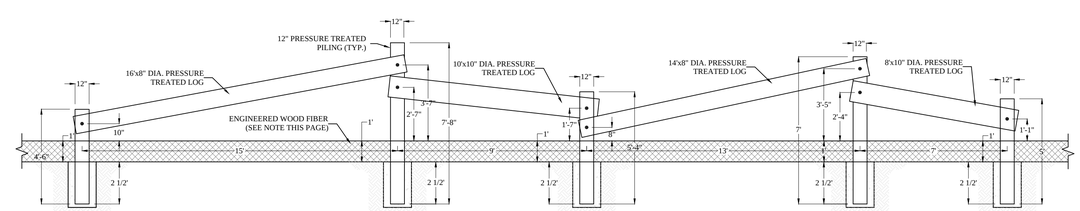


LOG CLIMBER DETAIL
NO SCALE



LOG CLIMBER NOTCH DETAIL
NO SCALE

ALL CEDAR LOGS TO BE BEVELED ON ENDS AND SANDED SMOOTH.



LOG CLIMBER
NOT TO SCALE

NOTE: 5 PILINGS (ALL 12" DIA.) - 4' 6", 7' 8", 5' 4", 7', & 5'
4 LOGS - 16'x8" DIA., 10'x10" DIA., 14'x8" DIA., 8'x10" DIA.

NOTE: ALL HARDWARE TO BE STAINLESS STEEL.
ALL WOOD TO BE PRESSURE TREATED AND 1 COAT OF THOMPSON WATER SEALER APPLIED.

NATURE PLAY LAYOUT AND ELEMENT LOCATION TO BE STAKED AND APPROVED BY KEEP LONGVIEW BEAUTIFUL, CITY & CONSULTANT PRIOR TO CONSTRUCTION.

CEMROCK REPRESENTATIVE: KEELER EKMAN (520-571-1999)

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REGISTERED LANDSCAPE ARCHITECT
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2087
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2.24.17

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NATURE PLAY DETAILS
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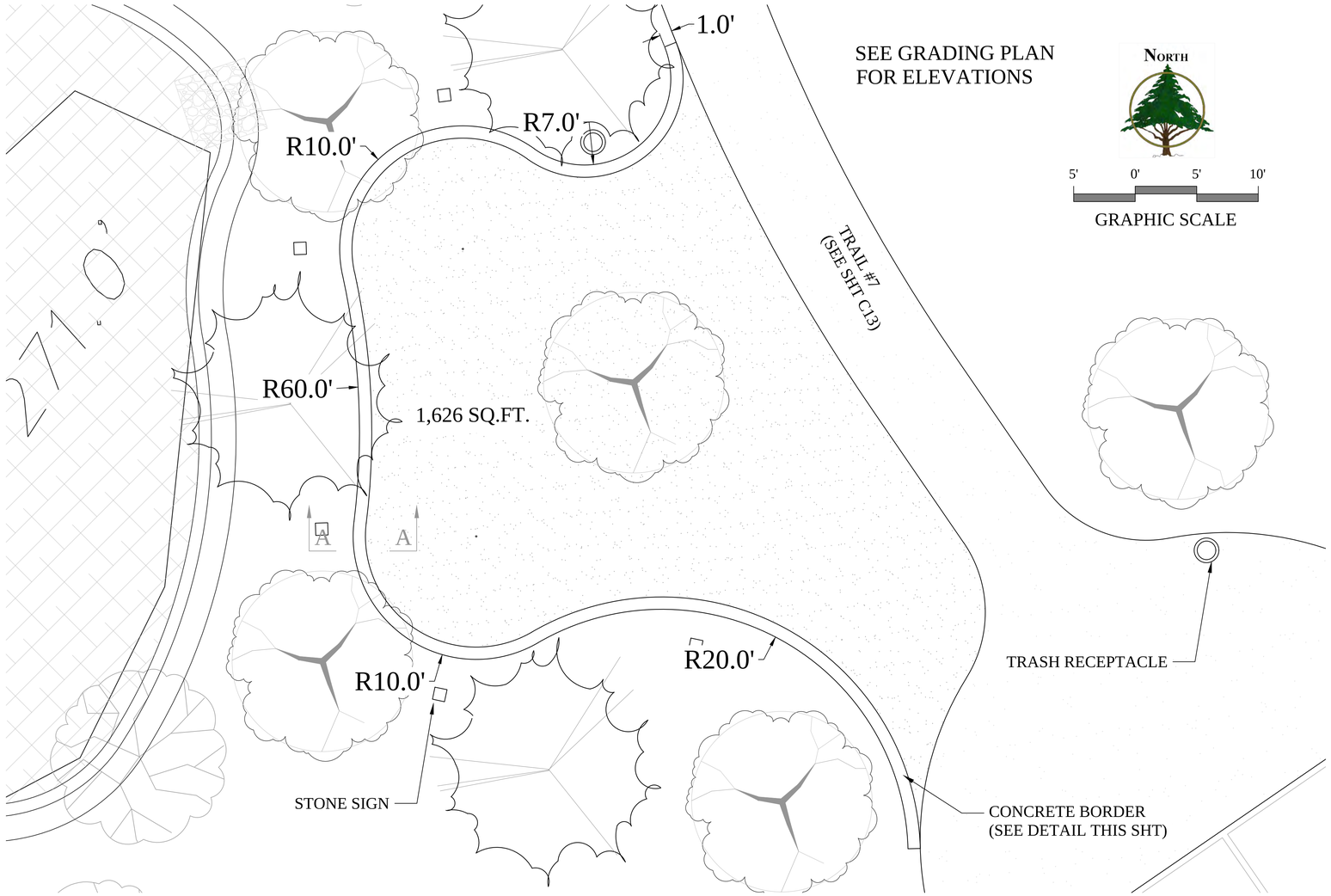

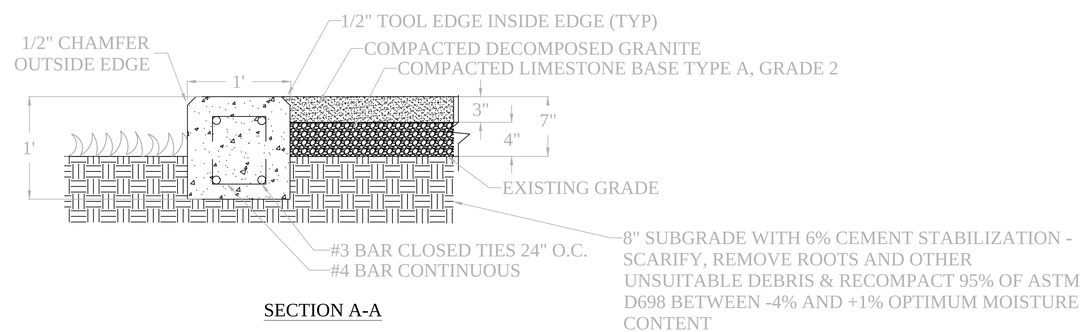

SECTION A-A

CONCRETE BORDER FOR DECOMPOSED GRANITE PATIO

1' 0' 1' 2'
GRAPHIC SCALE

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REGISTERED LANDSCAPE ARCHITECT
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3987
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OUTDOOR EDUCATION NODE
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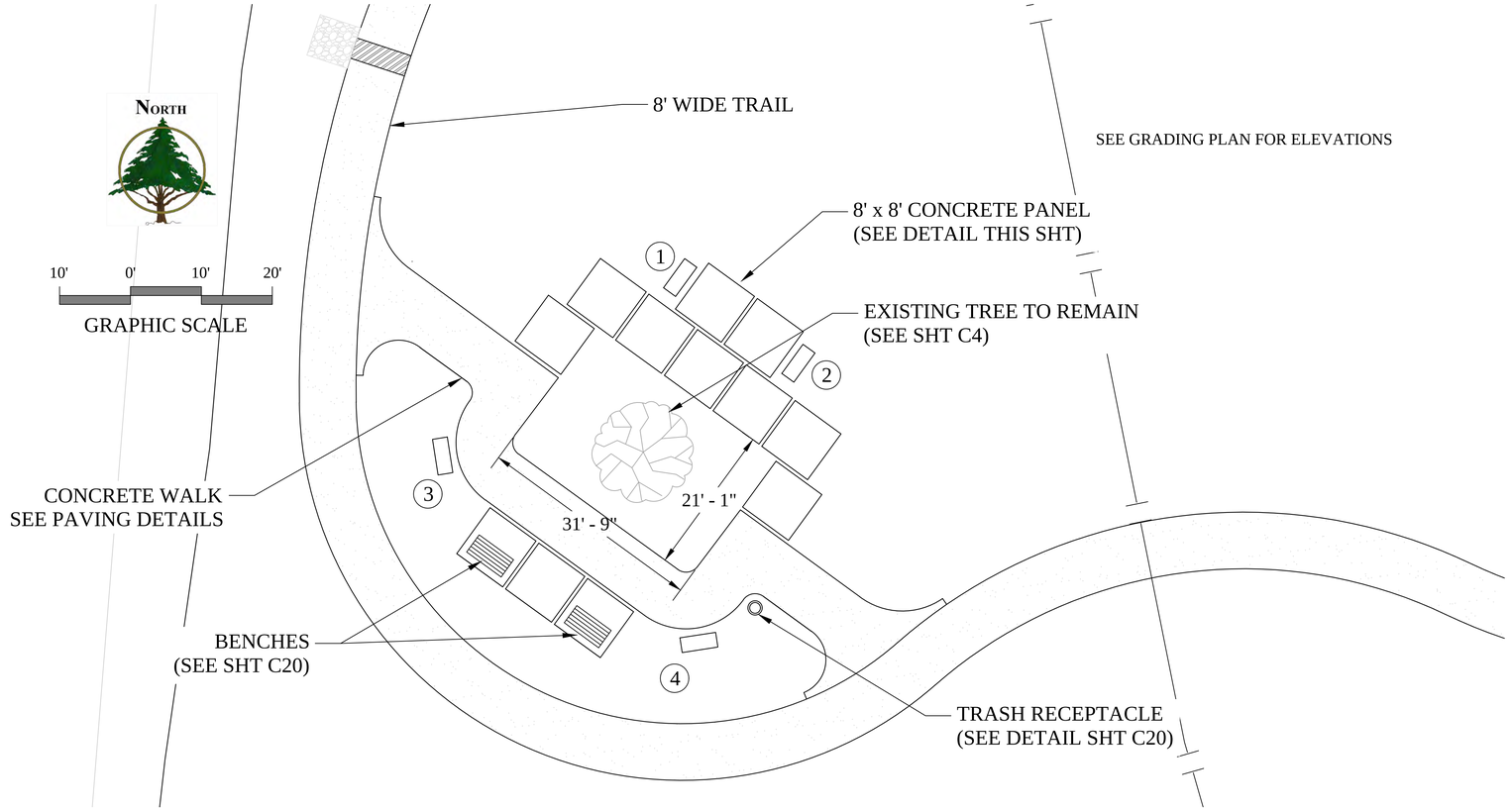
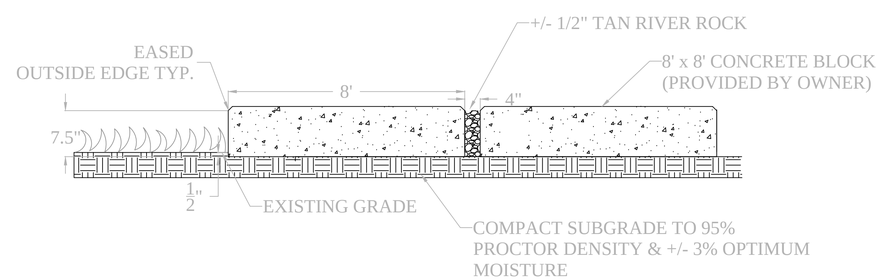


MUSIC PLAY ELEMENTS TO BE STAKED ON GROUND AND APPROVED BY CITY AND/OR CONSULTANT PRIOR TO INSTALLATION.

FREE NOTES HARMONY PARK - (970)-375-7825

1. PIPER
2. MERRY
3. TUNED DRUMS
4. MANTA RAY

INSTALL PER MANUFACTURERS WRITTEN INSTRUCTION.



NOTE: ALL AREAS TO SLOPE +/- 1 IN ALL DIRECTIONS.

MUSIC GARDEN DETAIL

REVISIONS:

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903-597-0517 Fax
TBPE No. F-14571

REGISTERED LANDSCAPE ARCHITECT
MICA E. PEREZ
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2-24-17

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MUSIC GARDEN DETAILS

THE GREEN
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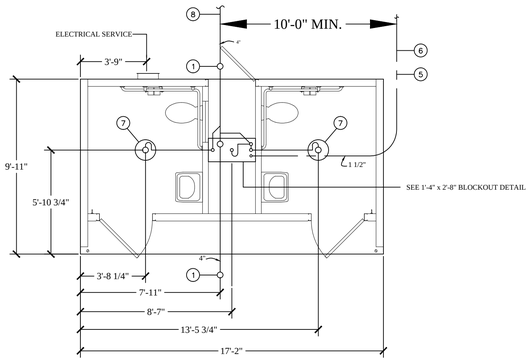
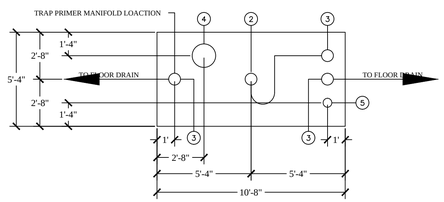
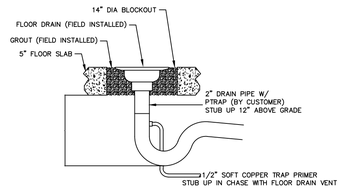


FLOOR DRAIN BLOCKOUTS & BELOW FLOOR PIPING

ALL PIPING INDICATED ON THIS SHEET IS NOT BY CXT



1'-4" x 2'-8" BLOCKOUT DETAIL



FLOOR DRAIN DETAIL

BELOW FLOOR PIPING - KEY NOTES

1. 4" CLEAN OUT TO GRADE.
2. 2" FLOOR DRAIN. FIELD INSTALLED TRAP PRIMER SYSTEM IF REQUIRED BY AUTHORITY HAVING JURISDICTION. (14" DIA BLOCKOUT)
3. 2" VENT PIPES EXTENDED 12" ABOVE FINISHED FLOOR LEVEL, PROVIDE TEST PLUG. (16"x24" BLOCKOUT)
4. 4" WASTE PIPE EXTENDED 12" ABOVE FINISHED FLOOR LEVEL, PROVIDE TEST PLUG. (16"x24" BLOCKOUT)
5. 1 1/2" TYPE K ANNEALED "SOFT" COPPER WATER SERVICE EXTENDED 12" ABOVE FINISHED FLOOR LEVEL, PROVIDE CAP AT END. (16"x24" BLOCKOUT)
6. 30" MIN. BURY, PROVIDE TRACER TAPE.
7. MIN. BURY PER LOCAL REQUIREMENTS TO PROTECT FROM FREEZING AND DAMAGE.
8. 2" FLOOR DRAIN. FIELD INSTALLED TRAP PRIMER SYSTEM IF REQUIRED BY AUTHORITY HAVING JURISDICTION. (16"x24" BLOCKOUT)

PIPING LEGEND

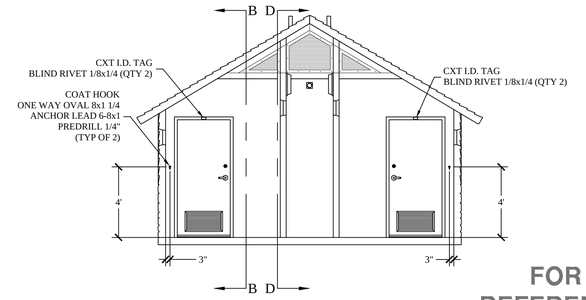
BELOW FLOOR WASTE PIPING SCH 40 ABS TYPE DWV

BELOW FLOOR VENT PIPING SCH 40 ABS TYPE DWV

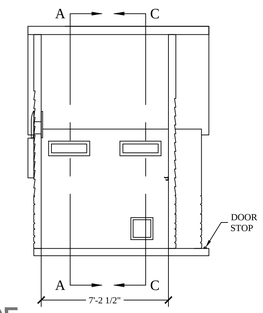
1 1/2" TYPE "K" ANNEALED "SOFT" COPPER WATER SERVICE

THIS DRAWING IS SUPPLIED FOR REFERENCE ONLY. PLEASE CONTACT CXT ENGINEERING DEPARTMENT FOR BUILDING SPECIFIC CONTROLLED DOCUMENTS PRIOR TO ANY FIELD WORK.

FOR REFERENCE ONLY

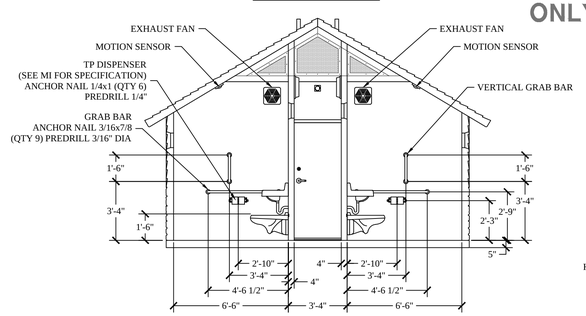


SECTION A - A

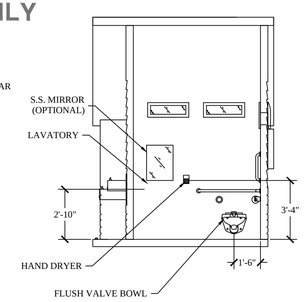


SECTION B - B

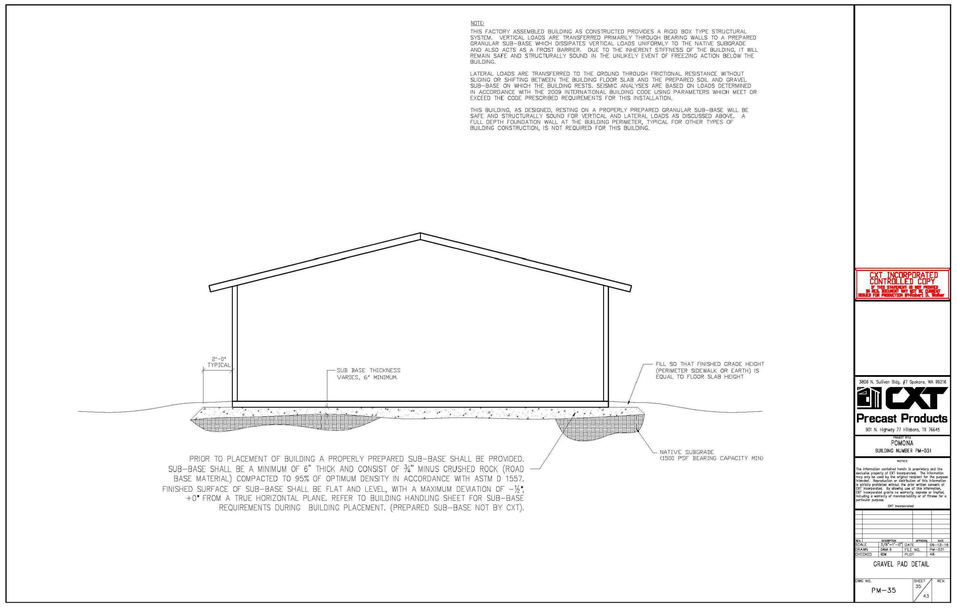
FOR REFERENCE ONLY



SECTION C - C



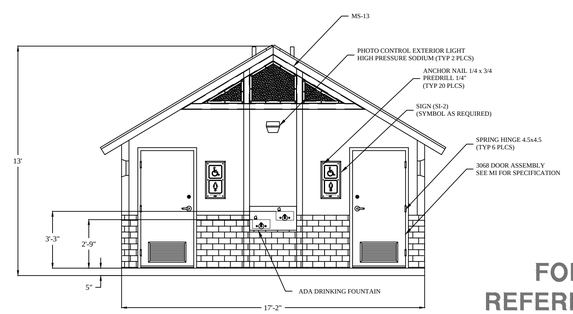
SECTION D - D



NOTE: CXT BUILDING REQD ACCESSORIES:
STAINLESS STEEL PLUMBING FIXTURES
ELECTRIC HAND DRYERS
EXTERIOR MOUNTAIN ADA DRINKING FOUNTAIN
4 GAL. ELECTRIC WATER HEATER
EXTERIOR FROSTPROOF HOSE BIB WITH BOX

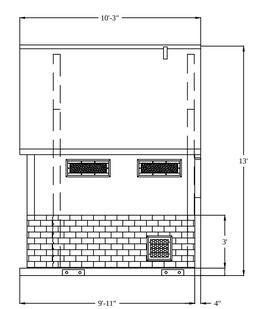
CXT PRECAST PRODUCTS
DENALI

1-800-696-5766 EXT 3241
901 N. HIGHWAY77 HILLSBORO, TX 76645
CONTACT: KURT MEE (303)-552-1843

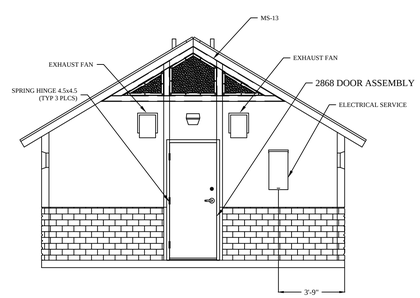


FRONT ELEVATION

FOR REFERENCE ONLY

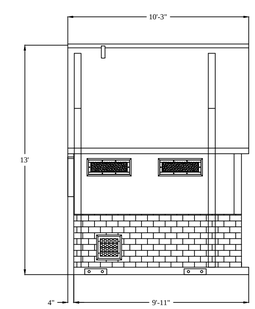


RIGHT SIDE ELEVATION



REAR ELEVATION

NOTE: EXTERIOR TO BE HORIZONTAL LAP SIDING



LEFT SIDE ELEVATION

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STATE OF TEXAS
WILLIAM H. SPENCER
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PROFESSIONAL ENGINEER
2-24-17

MHS
PLANNING & DESIGN, LLC

CXT DETAILS
THE GREEN
KEEP LONGVIEW BEAUTIFUL
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SCALE:	AS SHOWN
JOB NO.:	15-026

A1 OF 1

TX Firm Registration #F-10030

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SYMBOL LEGEND

- DISTRIBUTION PANELBOARD, SURFACE MOUNTED
- BRANCH PANELBOARD, SURFACE MOUNTED
- BRANCH PANELBOARD, FLUSH MOUNTED
- DRY-TYPE TRANSFORMER
- A — 2x4 FLUORESCENT FIXTURE, LETTER INDICATES TYPE
- A — 2x4 FLUORESCENT FIXTURE ON AN UNSWITCHED CIRCUIT, LETTER INDICATES TYPE
- A — 2x2 FLUORESCENT FIXTURE, LETTER INDICATES TYPE
- A — 2x2 FLUORESCENT FIXTURE ON AN UNSWITCHED CIRCUIT, LETTER INDICATES TYPE
- A — WALL MOUNTED FLUORESCENT FIXTURE, LETTER INDICATES TYPE
- A — WALL MOUNTED FLUORESCENT FIXTURE ON AN UNSWITCHED CIRCUIT, LETTER INDICATES TYPE
- A — 4' FLOURESCENT STRIP FIXTURE, LETTER INDICATES TYPE
- A — 4' FLOURESCENT STRIP FIXTURE ON AN UNSWITCHED CIRCUIT, LETTER INDICATES TYPE
- A — 8' FLOURESCENT STRIP FIXTURE, LETTER INDICATES TYPE
- A — 8' FLOURESCENT STRIP FIXTURE ON AN UNSWITCHED CIRCUIT, LETTER INDICATES TYPE
- A — LOW-BAY OR HIGH-BAY LIGHT FIXTURE, LETTER INDICATES TYPE
- A — RECESSED DOWNLIGHT, LETTER INDICATES TYPE
- A — RECESSED WALLWASH FIXTURE, LETTER INDICATES TYPE
- A — WALL MOUNTED LIGHT FIXTURE, LETTER INDICATES TYPE
- A — CEILING FAN, LETTER INDICATES TYPE
- A — PENDANT LIGHT FIXTURE, LETTER INDICATES TYPE
- A — CHANDALIER LIGHT FIXTURE, LETTER INDICATES TYPE
- A — EXIT LIGHT FIXTURE WITH INTEGRAL BATTERY PACK, ARROWS INDICATE DIRECTION, LETTER INDICATES TYPE
- A — COMBINATINON EXIT/EMERGENCY LIGHT FIXTURE WITH BATTERY PACK, LETTER INDICATES TYPE
- A — EMERGENCY LIGHT FIXTURE WITH BATTERY PACK, LETTER INDICATES TYPE
- EQUIPMENT CONNECTION
- NON-FUSED DISCONNECT, SIZE AMPERAGE AND NUMBER OF POLES IN ACCORDANCE WITH THE CIRCUIT OVERCURRENT PROTECTIVE DEVICE
- FUSED DISCONNECT, SIZE AMPERAGE AND NUMBER OF POLES IN ACCORDANCE WITH THE CIRCUIT OVERCURRENT PROTECTIVE DEVICE
- COMBINATION STARTER/DISCONNECT, SIZE AMPERAGE AND NUMBER OF POLES IN ACCORDANCE WITH THE CIRCUIT OVERCURRENT PROTECTIVE DEVICE
- M — CEILING MOUNTED OCCUPANCY SENSOR

$ — SINGLE POLE SWITCH, MOUNTED 46" ABOVE FINISHED FLOOR TO THE CENTER OF DEVICE, SUBSCRIPTS INDICATE THE FOLLOWING:

- 3 - 3-WAY SWITCH
- 4 - 4-WAY SWITCH
- K - KEYED SWITCH
- 3K - 3-WAY KEYED SWITCH
- 4K - 4-WAY KEYED SWITCH
- D1 - 1000W DIMMER
- D2 - 2000W DIMMER
- F - FAN RATED
- M - OCCUPANCY SENSOR
- R - MOTOR RATED SWITCH
- Y - MOMENTARY SWITCH
- WP- WEATHER-PROOF

DUPLEX RECEPTACLE, MOUNTED 46" ABOVE FINISHED FLOOR TO THE CENTER OF DEVICE, SUBSCRIPTS INDICATE THE FOLLOWING:

- * - MOUNTED 6" ABOVE COUNTER TO THE CENTER OF DEVICE
- G - GROUND FAULT INTERRUPTER TYPE
- IG - ISOLATED GROUND
- T - TAMPER-PROOF
- WP- WEATHER-PROOF

QUADPLEX RECEPTACLE, MOUNTED 46" ABOVE FINISHED FLOOR TO THE CENTER OF DEVICE, SUBSCRIPTS INDICATE THE FOLLOWING:

- * - MOUNTED 6" ABOVE COUNTER TO THE CENTER OF DEVICE
- G - GROUND FAULT INTERRUPTER TYPE
- IG - ISOLATED GROUND
- T - TAMPER-PROOF
- WP- WEATHER-PROOF GROUND FAULT INTERRUPTER TYPE

TELEPHONE/DATA OUTLET, MOUNTED 18" ABOVE FINISHED FLOOR TO THE CENTER OF DEVICE WITH 3/4" CONDUIT STUBBED OUT TO ABOVE ACCESSIBLE CEILING

TELEPHONE/DATA OUTLET, MOUNTED 6" ABOVE TOP OF COUNTER TO THE CENTER OF DEVICE WITH 3/4" CONDUIT STUBBED OUT TO ABOVE ACCESSIBLE CEILING

CABLE TV OUTLET, MOUNTED 18" ABOVE FINISHED FLOOR TO THE CENTER OF DEVICE WITH 3/4" CONDUIT STUBBED OUT TO ABOVE ACCESSIBLE CEILING

CABLE TV OUTLET, MOUNTED 6" ABOVE TOP OF COUNTER TO THE CENTER OF DEVICE WITH 3/4" CONDUIT STUBBED OUT TO ABOVE ACCESSIBLE CEILING

FLOOR MOUNTED RECEPTACLE WITH BRASS COVER PLATE

FLOOR MOUNTED TELEPHONE OUTLET WITH BRASS COVER PLATE & 3/4" CONDUIT STUBBED OUT TO ABOVE ACCESSIBLE CEILING

FLOOR MOUNTED DATA OUTLET WITH BRASS COVER PLATE & 3/4" CONDUIT STUBBED OUT TO ABOVE ACCESSIBLE CEILING

FLOOR MOUNTED CABLE TV OUTLET WITH BRASS COVER PLATE & 3/4" CONDUIT STUBBED OUT TO ABOVE ACCESSIBLE CEILING

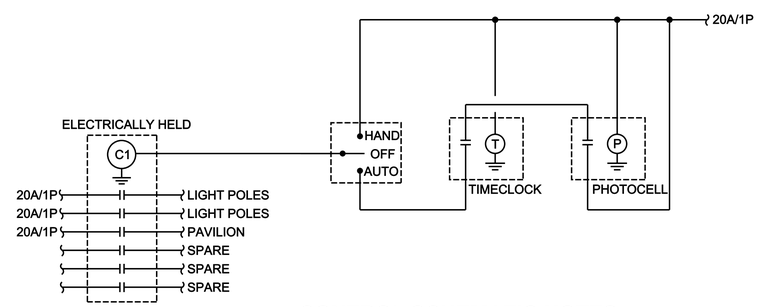
T — THERMOSTAT OUTLET BOX, MOUNTED 46" ABOVE FINISHED FLOOR TO THE CENTER OF DEVICE WITH 1/2" CONDUIT STUBBED OUT TO ABOVE ACCESSIBLE CEILING

HOMERUN TO PANELBOARD - ARROW(S) INDICATE NUMBER OF CIRCUITS. SUBSCRIPT DENOTES PANELBOARD AND CIRCUIT NUMBER(S)

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER & "SERIES"	VOLTAGE	#-LAMP	NOTES
F1	ARCHITECTURAL FLOURESCENT FLOODLIGHT, KNUCKLE MOUNT ON 18" STANCHION, WIDE FLOOD OPTICS, DARK BRONZE FINISH	KIM "ARFX09"	120/208/ 240/277V	LED 4000 K 9,000 LUMENS	
K1	17" SURFACE MOUNTED LED, CAST ALUMIMUM HOUSING, WHITE ACRYLIC LENS, NEOPRENE GASKETS, 4 - 3/4" NPT OPENINGS, CUSTOM COLOR TO BE SELECTED BY OWNER'S REPRESENTATIVE	KENALL "MR17FFD"	120/208/ 240/277V	LED 4,000 K 3,500 LUMENS	
S31	30FT x 5IN SQUARE STRAIGHT STEEL POLE RATED FOR 10EPA AT 90MPH WIND AND 51 LBS SNOW LOAD, ONE LED LIGHT FIXTURE, DIECAST ALUMINUM HOUSING WITH RADIUS CORNERS, UPSWEPT ARM, CUTOFF, TYPE II OPTICS, BACKLIGHT CONTROL, FIXTURE ORIENTATION AS SHOWN ON DRAWINGS, COLOR TO BE SELECTED BY OWNER'S REPRESENTATIVE	SPAULDING "SSS", "CL1"	120/208/ 240/277V	LED 4,000 K 22,000 LUMENS PER FIXTURE	
S32	30FT x 5IN SQUARE STRAIGHT STEEL POLE RATED FOR 10EPA AT 90MPH WIND AND 51 LBS SNOW LOAD, TWO LED LIGHT FIXTURE, DIECAST ALUMINUM HOUSING WITH RADIUS CORNERS, UPSWEPT ARM, CUTOFF, TYPE IV OPTICS, BACKLIGHT CONTROL, FIXTURE ORIENTATION AS SHOWN ON DRAWINGS, COLOR TO BE SELECTED BY OWNER'S REPRESENTATIVE	SPAULDING "SSS", "CL1"	120/208/ 240/277V	LED 4,000 K 22,000 LUMENS PER FIXTURE	

GENERAL NOTES:
1. NO LIGHT FIXTURE SUBSTITUTIONS WILL BE ACCEPTED WITHOUT PRIOR APPROVAL.



CONTROL SCHEMATIC NOTES

1. CONTACTOR ENCLOSURE SHALL BE A HOFFMAN #A2424408LP WITH BACKPLATE.
2. CONTACTORS SHALL BE EATON #C30CN SERIES. LOAD CONTACTS SHALL BE RATED FOR 480V,30A. A 2-WIRE CONTROL MODULE SHALL BE PROVIDED FOR MECHANICALLY HELD CONTACTORS.
3. TIMECLOCK SHALL BE A TORK #DWZ100B.
4. PHOTOCELL SHALL BE A TORK #2001.
5. HAND-OFF-AUTOMATIC SWITCH (HOA) SHALL BE AN EATON #E22 SERIES. MOUNT THE HOA SWITCH IN DOOR OF CONTACTOR ENCLOSURE.
6. INSTALL CONTACTOR ENCLOSURE ADJACENT TO PANEL INSIDE CTX BUILDING.

1 LIGHTING CONTROL SCHEMATIC
NOT TO SCALE

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MHS
PLANNING & DESIGN, LLC

ELECTRICAL LEGEND
THE GREEN
CITY OF LONGVIEW, TEXAS

DRAWN:	CDP
CHECKED:	LKP
DATE:	FEB 24 2017
SCALE:	AS SHOWN
JOB NO.:	15-026

2/24/2017 1:44:58 PM

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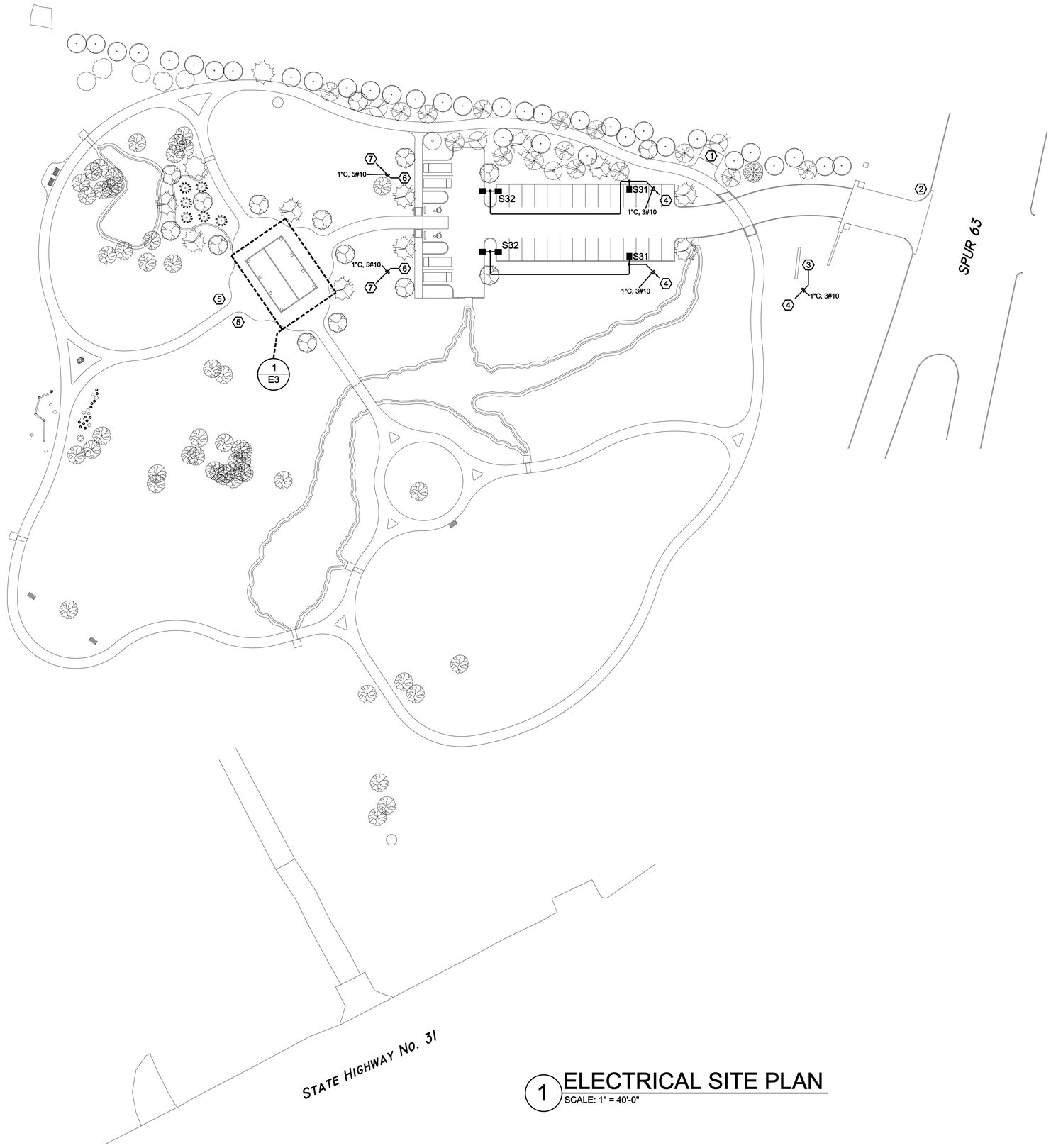

1 ELECTRICAL SITE PLAN
SCALE: 1" = 40'-0"

GENERAL NOTES

1. INSTALL MARKING TAPE 6" (BRADY IDENTOLINE OR EQUAL) ABOVE ALL CONDUIT INSTALLED BELOW GRADE.
2. BACKFILL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED 12" LOOSE DEPTH AND SHALL BE COMPACTED A MINIMUM OF 95% OF STANDARD MAXIMUM DENSITY.
3. DO NOT CUT EXISTING PAVEMENT, SIDEWALKS OR CURBS. DO NOT DITCH OR EXCAVATE WITHIN 5FT OF THE DRIPLINE OF EXISTING TREES. BORE AS REQUIRED TO AVOID THESE OBSTACLES.

PLAN NOTES

PRIOR TO INSTALLATION VERIFY THE EXACT LOCATION AND CONNECTION REQUIREMENTS FOR ALL EQUIPMENT DESIGNATED BY PLAN NOTES.

1. CONNECTION TO PREMANUFACTURED BUILDING. PROVIDE A 240/120V, 1PH, 3W, 200A METER BASE ON EXTERIOR OF BUILDING. CONNECT METER BASE TO PANEL SUPPLIED WITH BUILDING WITH A 2"C, 3 - #4/0, 1- #4 FEEDER. COORDINATE EXACT REQUIREMENTS WITH VENDOR SUPPLYING BUILDING. PROVIDE A 2" CONDUIT FROM METER BASE TO NEW ELECTRIC UTILITY POLE SHOWN BY PLAN NOTE 2.
2. NEW ELECTRIC UTILITY POLE.
3. SIGN. INSTALL (3) TYPE "F1" FLOODLIGHTS. REFER TO DETAIL 2 ON SHEET E4. AIM LIGHTS AS DIRECTED BY OWNER'S REPRESENTATIVE.
4. CONNECT TO A SPARE 20A/1P CIRCUIT BREAK IN BUILDING SHOWN BY PLAN NOTE 1. ROUTE CIRCUIT THRU LIGHTING CONTACTOR.
5. STUB SPARE 1" CONDUITS FROM THIS LOCATION TO BUILDING SHOWN BY PLAN NOTE 1.
6. INSTALL RECEPTACLES ON A PEDESTAL AT THIS LOCATION. REFER TO DETAIL 4 ON SHEET E4.
7. CONNECT EACH RECEPTACLE TO A SPARE 20A/1P CIRCUIT BREAK IN BUILDING SHOWN BY PLAN NOTE 1.

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ELETRICAL SITE PLAN

THE GREEN

CITY OF LONGVIEW, TEXAS

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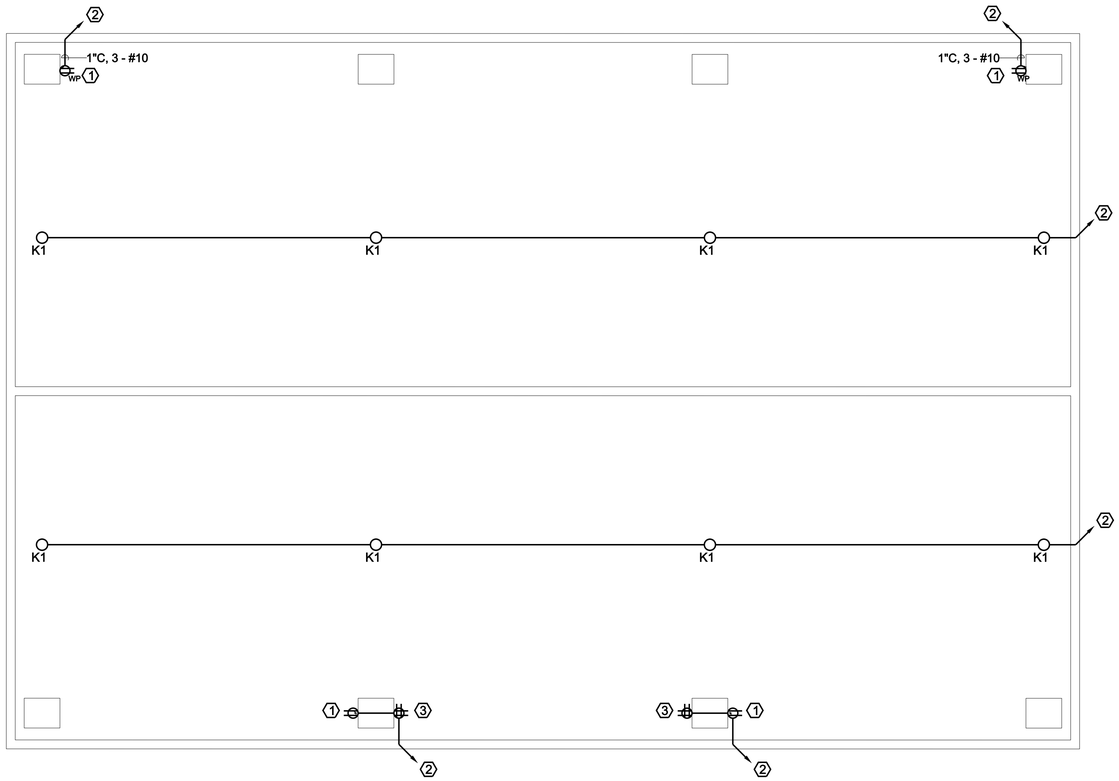

1 ELECTRICAL LIGHTING AND POWER PLAN
SCALE: 1/4" =1'-0"

GENERAL NOTES

1. ALL CONDUIT SHALL BE CONCEALED WITHIN STRUCTURE.

PLAN NOTES

PRIOR TO INSTALLATION VERIFY THE EXACT LOCATION AND CONNECTION REQUIREMENTS FOR ALL EQUIPMENT DESIGNATED BY PLAN NOTES.

1. MOUNT RECEPTACLE IN COLUMN SO THAT PLATE IS FLUSH WITH OUTSIDE FACE OF STONEWORK. PROVIDE A GRAY VERTICAL GFCI COVERPLATE - PASS & SEYMOUR #CA26-GV.
2. PROVIDE AND INSTALL A 20A/1P CIRCUIT BREAKER IN THE PANEL LOCATED IN BUILDING SHOWN BY PLAN NOTE 1 ON SHEET E2 TO SERVE CIRCUIT.
3. MOUNT RECEPTACLE IN COLUMN SO THAT PLATE IS FLUSH WITH OUTSIDE FACE OF STONEWORK. PROVIDE A GRAY VERTICAL GFCI COVERPLATE - PASS & SEYMOUR #3797.

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PAVILION ELECTRICAL PLAN

THE GREEN
CITY OF LONGVIEW, TEXAS

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E3 OF 4

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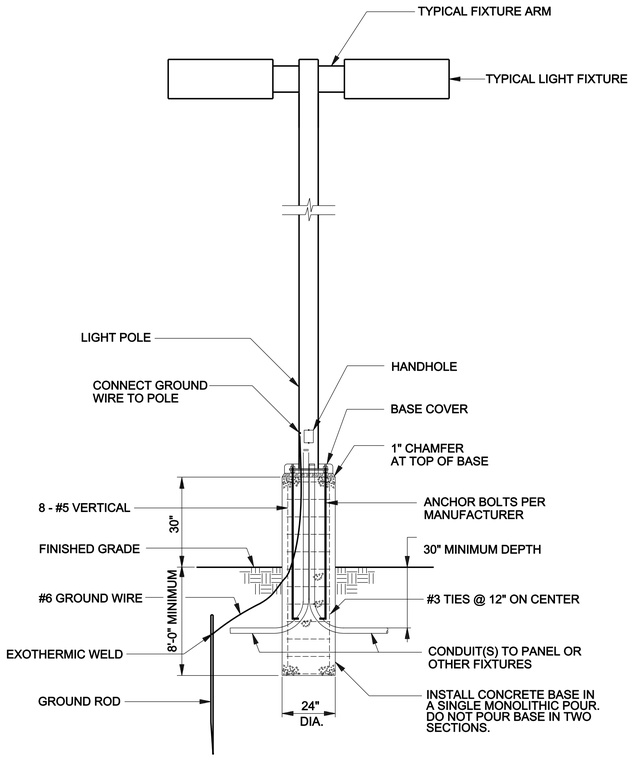
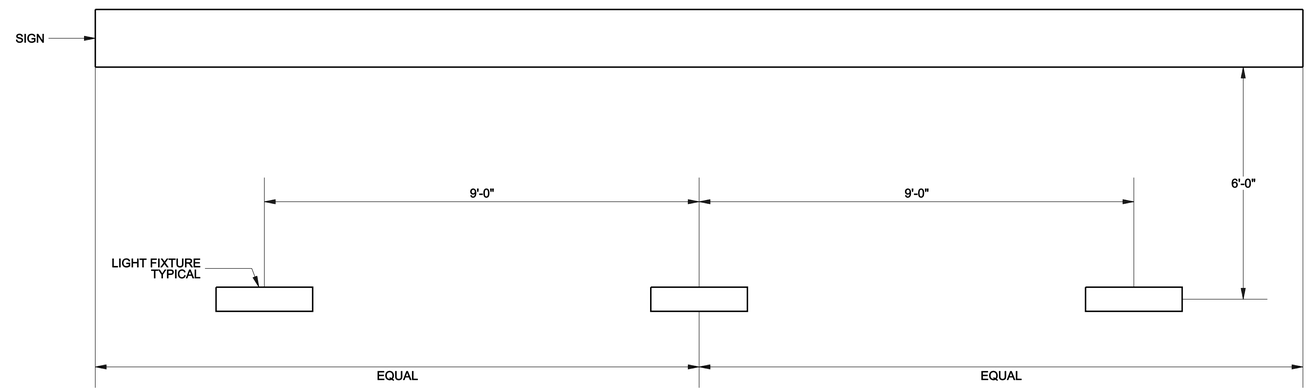
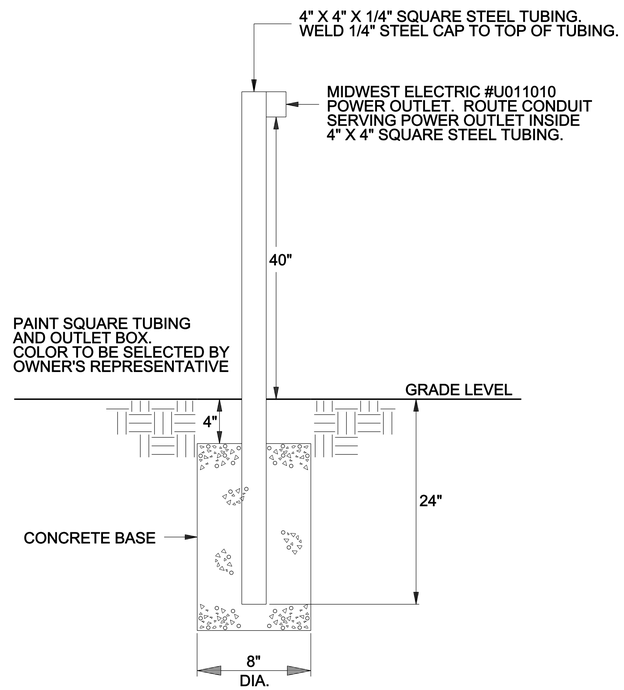


1 POLE BASE
NOT TO SCALE



2 FLOODLIGHTS AIMED AT SIGN
NOT TO SCALE



3 PEDESTAL RECEPTACLE DETAIL
NOT TO SCALE

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ELECTRICAL DETAILS

THE GREEN
CITY OF LONGVIEW, TEXAS

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STRUCTURAL NOTES

CODES:

1. THE BUILDING CODE USED AS THE BASIS FOR THE STRUCTURAL DESIGN –
   2012 INTERNATIONAL BUILDING CODE
   2012 INTERNATIONAL RESIDENTIAL CODE

2. STRUCTURAL CONCRETE: BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE, ACI 318

DESIGN LOADS:

1. DESIGN LIVE LOADS:

ROOF	20 PSF – REDUCIBLE
BASIC WIND SPEED	115 MPH
EXPOSURE:	"B"
RISK CATEGORY:	II

COORDINATION:

1. VERIFY ALL CONDITIONS AT THE JOBSITE AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.

2. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS TO CONFIRM ALL REQUIREMENTS OF THE WORK. REPORT ANY CONFLICT/DISCREPANCY BETWEEN THE DISCIPLINES TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL ELEMENTS.

FOUNDATIONS

1. FOUNDATION DESIGN IS BASED UPON THE FOLLOWING DESIGN PARAMETERS:
   ALLOWABLE BEARING PRESSURE:
   SHALLOW FOOTINGS---------- 2000 PSF AT A DEPTH OF 2.0 FEET BELOW FINISH FLOOR OR FINISH GRADE – OVEREXCAVATE PER THE REQUIREMENTS IN THE GEOTECHNICAL REPORT

2. REFER TO GEOTECHNICAL ENGINEERING REPORT FOR THE GREEN, CITY OF LONGVIEW, TEXAS, DATED FEBRUARY 23, 2016, AS PREPARED BY ALLIANCE GEOTECHNICAL GROUP, LONGVIEW, TEXAS, AGG REPORT NO. LEE16–005.

3. ALL SITE AND SUBGRADE PREPARATION AND STRUCTURAL FILL SHALL BE IN ACCORDANCE WITH THE ABOVE REFERENCED GEOTECHNICAL REPORT.

4. NOTE: DUE TO THE SITE LOCATION WITHIN A WETLANDS, AN APPROPRIATE DEWATERING SYSTEM SHALL BE IN FORCE.

5. WATER SHALL NOT BE ALLOWED TO COLLECT NEAR FOUNDATION PAD OF THE BUILDING EITHER DURING OR AFTER CONSTRUCTION. WATER SHALL NOT BE ALLOWED TO POND IN THE UNDERCUT OR EXCAVATED AREAS UNDER THE BUILDING. PROPER DRAINAGE SHALL BE COORDINATED WITH THE GEOTECHNICAL ENGINEER DURING SUBGRADE PREPARATION.

5. FOOTING EXCAVATIONS SHALL BE DRY AND CLEAN WHEN CONCRETE IS PLACED.

SITE PREPARATION

1. EXCAVATE TO DEPTHS INDICATED ON THE GEOTECHNICAL REPORT TO REDUCE THE ANTICIPATED SOIL SWELL PVM. CONTRACTOR SHALL ANTICIPATE A MINIMUM OF 2 FEET OF EXCAVATION BELOW THE INDIVIDUAL FOOTINGS AND 2.5 FEET EXCAVATION BELOW THE FINISH SLAB. EXTENTS OF EXCAVATION SHALL EXTEND A MINIMUM OF 5 FEET BEYOND THE BUILDING LINES.

   GEOTECHNICAL ENGINEER OR REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING FIRM SHALL OBSERVE ALL EARTHWORK OPERATIONS.

2. PROOFROLL THE SUBGRADE SOILS AT THE BASE OF THE PAVILION AND ENTRY SIGNAGE EXCAVATION WITH A FULLY LOADED DUMP TRUCK TO DETECT ANY AREAS OF WEAKNESS.
   THE PROOFROLLING OPERATIONS SHALL BE OBSERVED BY AN EXPERIENCED ALLIANCE GEOTECHNICAL GROUP REPRESENTATIVE.

   SCARIFY, REWORK AND RECOMPACT THE EXCAVATED SUBGRADE PER THE GEOTECHNICAL INVESTIGATION SPECIFICATIONS.

3. ALL EARTHWORK OPERATIONS MSUT BE UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEERTION AREA.

4. CONDUCT IN–PLACE DENSITY TESTS FOR FILL BENEATH FOUNDATIONS AT THE RATE OF AT LEAST ONE TEST PER 2500 SQUARE FEET OF SURFACE AREA PER LIFT, OR A MINIMUM OF FOUR (4) TESTS PER LIFT FOR EACH TESTED AREA.

5. CONDUCT IN–PLACE DENSITY TESTS FOR BACKFILL AGAINST WALLS AT THE RATE OF AT LEAST ONE TEST PER 250 CUBIC FEET OF BACKFILL PLACEMENT, MINIMUM FOUR TESTS PER LIFT.

CAST–IN–PLACE CONCRETE

1. CAST–IN–PLACE CONCRETE MIX CRITERIA SHALL BE AS SHOWN BELOW.
   CEMENTITIOUS MATERIAL: PORTLAND CEMENT ASTM C 150, TYPE I

2. CAST–IN–PLACE CONCRETE SHALL STRICTLY ADHERE TO THE PROPORTIONS ESTABLISHED IN DESIGN MIXES, CONSISTING OF THE ACTUAL MATERIALS TO BE USED DURING CONSTRUCTION. DESIGN MIXES SHALL BE PREPARED AND SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO USE. MIX DESIGN PROPORTIONS SHALL BE IN ACCORDANCE WITH ACI 211/301/318.
   USE OF CALCIUM CHLORIDE IS NOT PERMITTED.

   REFER TO SCHEDULE BELOW FOR MIX CRITERIA

CONCRETE MIX CRITERIA

CONCRETE PLACEMENT	MIN. STRENGTH @ 28 DAYS	AGGREGATE SIZE ASTM C33	MAX. W/C RATIO	SLUMP	AIR CONTENT
CLASS B GRADE BEAMS. FDN. SLAB	4000 PSI NWT	1 1/2"	0.45	4" ± 1"	5.5%, ± 1.5% AT POINT OF DELIVERY.

NOTES:
1. WATER MAY BE ADDED AT THE SITE, PROVIDED THE DESIGN SLUMP IS NOT EXCEEDED.
2. MINIMUM W/C RATIO, IF NOT SPECIFIED, SHALL BE AS REQUIRED TO MEET MINIMUM STRENGTH SPECIFICATIONS

3. MINIMUM CONCRETE PROTECTION FOR REINFORCING BARS (U.N.O.):
   DEPOSITED AGAINST EARTH ---------- 3"
   EXPOSED TO WEATHER OR EARTH ----- 2"
   (AFTER FORMS REMOVED)

4. CONTRACTOR SHALL VERIFY THE PRESENCE, LOCATION, SIZES, AND CORRECTNESS OF ALL OPENINGS, DEPRESSIONS, AND EMBEDMENTS PRIOR TO PLACING CONCRETE. NO OPENINGS SHALL BE PERMITTED THROUGH BEAMS OR PLINTHS UNLESS DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.

5. ALL DRILLED/EPOXY SET ANCHORS OR DOWELS SHALL BE AS MANUFACTURED BY HILTI.

6. REPAIRING FORMED SURFACES: SURFACE DEFECTS INCLUDE COLOR AND TEXTURE IRREGULARITIES, CRACKS, SPALLS, AIR BUBBLES, HONEYCOMBS, ROCK POCKETS, FINS AND OTHER PROJECTIONS ON THE SURFACE, AND STAINS AND OTHER DISCOLORATIONS THAT CANNOT BE REMOVED BY CLEANING.

   A. IMMEDIATELY AFTER FORM REMOVAL, CUT OUT HONEYCOMBS, ROCK POCKETS AND VOIDS MORE THAN 1/2 INCH IN ANY DIMENSION IN SOLID CONCRETE, BUT NOT LESS THAN 1 INCH IN DEPTH. MAKE EDGES OF CUTS PERPENDICULAR TO CONCRETE SURFACE. CLEAN, DAMPEN WITH WATER, AND BRUSH–COAT HOLES AND VOIDS WITH BONDING AGENT. FILL AND COMPACT WITH PATCHING MORTAR OR CONE PLUGS SECURED IN PLACE WITH BONDING AGENT.

   B. REPAIR DEFECTS ON SURFACES EXPOSED TO VIEW BY BLENDING WITH PORTLAND CEMENT AND STANDARD PORTLAND CEMENT SO THAT, WHEN DRY, PATCHING MORTAR WILL MATCH SURROUNDING COLOR. PATCH A TEST AREA AT INCONSPICUOUS LOCATIONS TO VERIFY MIXTURE AND COLOR MATCH BEFORE PROCEEDING WITH PATCHING. COMPACT MORTAR IN PLACE AND STRIKE OFF SLIGHTLY HIGH THAN SURROUNDING SURFACE.

   C. REPAIR DEFECTS ON CONCEALED FORMED SURFACES THAT AFFECT CONCRETE'S DURABILITY AND STRUCTURAL PERFORMANCE AS DETERMINED BY ARCHITECT.

7. PLACE CONCRETE CONTINUOUSLY WITHOUT INTERRUPTION, IN SUCH A MANNER AS NOT TO CAUSE SEGREGATION, VIBRATING EACH LIFT.

8. PROPER ACCESSORIES/SUPPORTS ARE TO BE USED AS NOTED. ALL REINFORCING, INCLUDING FOOTING REINFORCING TO BE SECURELY AND ACCURATELY HELD IN LOCATIONS SHOWN ON PLANS AND DETAILS.

9. TESTING LABORATORY SERVICES FOR QUALITY CONTROL OF CAST–IN–PLACE CONCRETE SHALL BE PROVIDED BY THE OWNER. TESTING SERVICES SHALL INCLUDE PREPARATION AND TESTING OF CONCRETE COMPRESSION CYLINDERS AND SLUMP TESTS AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

10. SUBMITTALS

    A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
    B. DESIGN MIXTURES: FOR EACH CONCRETE MIXTURE. SUBMIT ALTERNATE DESIGN MIXTURES WHEN CHARACTERISTICS OF MATERIALS, PROJECT CONDITIONS, WEATHER, TEST RESULTS, OR OTHER CIRCUMSTANCES WARRANT ADJUSTMENTS.
       1. INDICATE AMOUNTS OF MIXING WATER TO BE WITHHELD FOR LATER ADDITION AT PROJECT SITE.

    C. STEEL REINFORCEMENT SHOP DRAWINGS: PLACING DRAWINGS THAT DETAIL FABRICATION, BENDING, AND PLACEMENT. INCLUDE BAR SIZES, LENGTHS, MATERIAL, GRADE, BAR SCHEDULES, STIRRUP SPACING, BENT BAR DIAGRAMS, BAR ARRANGEMENT, SPLICES AND LAPS, MECHANICAL CONNECTIONS, TIE SPACING, HOOP SPACING, AND SUPPORTS FOR CONCRETE REINFORCEMENT.
       1. DO NOT REPRODUCE THE STRUCTURAL DRAWINGS FOR USE AS SHOP DRAWINGS.
       2. SUBMISSION SHALL BE IN A TIMELY FASHION TO ALLOW ARCHITECT AND/OR ENGINEER SUFFICIENT TIME TO REVIEW DRAWINGS.
       3. NO MATERIAL SHALL BE FABRICATED FOR WHICH SHOP DRAWINGS HAVE NOT BEEN APPROVED BY THE ARCHITECT.

CAST–IN–PLACE CONCRE (CONTINUED)

11. FIELD QUALITY CONTROL

    A. TESTING AND INSPECTING: OWNER WILL ENGAGE A QUALIFIED TESTING AND INSPECTING AGENCY PERFORM FIELD TESTS AND INSPECTIONS AND PREPARE TEST REPORTS.

    B. INSPECTIONS:
       1. CONCRETE PLACEMENT, INCLUDING CONVEYING AND DEPOSITING.

    C. CONCRETE TESTS: TESTING OF COMPOSITE SAMPLES OF FRESH CONCRETE OBTAINED ACCORDING TO ASTM C 172 SHALL BE PERFORMED ACCORDING TO THE FOLLOWING REQUIREMENTS:

12. TESTING FREQUENCY: OBTAIN ONE COMPOSITE SAMPLE FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE EXCEEDING 5 CU. YD. (4 CU. M), BUT LESS THAN 25 CU. YD. (19 CU. M), PLUS ONE SET FOR EACH ADDITIONAL 50 CU. YD. (38 C. M) OR FRACTION THEREOF.
13. SLUMP: ASTM C 143/C 143M; ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE. PERFORM ADDITIONAL TEST WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE.
14. AIR CONTENT: ASTM C 231, PRESSURE METHOD, FOR NORMAL–WEIGHT CONCRETE; ONE TEST FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE.
15. CONCRETE TEMPERATURE: ASTM C 1064/C 1064M; ONE TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEG F(4.4 DEG C) AND BELOW AND WHEN 80 DEG F (27 DEG C) AND ABOVE, AND ONE TEST FOR EACH COMPOSITE SAMPLE.
16. COMPRESSION TEST SPECIMENS: ASTM C 31/C 31M.
    a. CAST AND CURE FOUR STANDARD CYLINDER SPECIMENS FROM EACH COMPOSITE SAMPLE IN ACCORDANCE WITH ASTM C31.
    b. COMPRESSIVE–STRENGTH TESTS: ASTM C 39/C 39M; TEST ONE CYLINDER AT 7 DAYS AND TWO CYLINDERS AT 28 DAYS. STORE ONE CYLINDER FOR TESTING AT 56 DAYS IN THE EVENT THE 28 DAYS STRENGTH TEST DO NOT MEET STRENGTH REQUIREMENTS.
    c. A COMPRESSIVE–STRENGTH TEST SHALL BE THE AVERAGE COMPRESSIVE STRENGTH FROM A SET OF TWO SPECIMENS OBTAINED FROM SAME COMPOSITE SAMPLE AND TESTED AT AGE INDICATED.
       STRENGTH OF EACH CONCRETE MIXTURE WILL BE SATISFACTORY IF EVERY AVERAGE OF ANY THREE CONSECUTIVE COMPRESSIVE–STRENGTH TEST EQUALS OR EXCEEDS SPECIFIED COMPRESSIVE STRENGTH AND NO COMPRESSIVE–STRENGTH TEST VALUE FALLS BELOW SPECIFIED COMPRESSIVE STRENGTH BY MORE THAN 500 PSI (3.4 MPA).
17. TEST RESULTS SHALL BE REPORTED IN WRITING TO ARCHITECT, CONCRETE MANUFACTURER, AND CONTRACTOR WITHIN 48 HOURS OF TESTING. REPORTS OF COMPRESSIVE–STRENGTH TESTS SHALL CONTAIN PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING AND INSPECTING AGENCY, LOCATION OF CONCRETE BATCH IN WORK, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIXTURE PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH, AND TYPE OF BREAK FOR BOTH 7 – AND 28–DAY TESTS.

18. NONDESTRUCTIVE TESTING: IMPACT HAMMER, SONOSCOPE, OR OTHER N NONDESTRUCTIVE DEVICE MAY BE PERMITTED BY ARCHITECT BUT WILL NOT BE USED AS SOLE BASIS FOR APPROVAL OR REJECTION OF CONCRETE.
    9 CORRECT DEFICIENCIES IN THE WORK WHEN TEST REPORTS AND INSPECTIONS INDICATE THAT THE WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS.

CONCRETE REINFORCEMENT

1. ALL CONCRETE REINFORCEMENT SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615 GRADE 60 AND UTILIZE CONTINUOUS STOCK LENGTH OF 40'–0" WHENEVER POSSIBLE. ALL REINFORCING BARS SHALL BE LAPPED 48 BAR DIAMETERS (2'–0" MINIMUM) AT SPLICES UNLESS NOTED OTHERWISE ON PLANS OR DETAILS. DEVIATIONS IN SPLICE LOCATIONS AND LENGHTS ARE NOT ALLOWED UNLESS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.

2. CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH ACI 315 AND ACI 318.

3. ALL HOOKS AND BENDS IN REINFORCING BARS SHALL CONFORM TO ACI DETAILING STANDARDS UNLESS SHOWN OTHERWISE.

4. PROVIDE REINFORCING BARS IN ACCORDANCE WITH THE BAR BENDING DIAGRAM IF BAR TYPES AR SPECIFIED. IN UNSCHEDULED BEAMS, SLABS, COLUMNS AND WALLS DETAIL REINFORCING AS FOLLOWS:

   a. LAP TOP REINFORCING BARS AT MIDSPAN.
   b. LAP BOTTOM REINFORCING BARS AT THE SUPPORTS.
   c. LAP VERTICAL BARS IN COLUMNS AND WALLS ONLY AT FLOOR LINES, UNLESS NOTED OTHERWISE.
   d. LAP REINFORCING BARS 40 BAR DIAMETERS MINIMUM, UNLESS NOTED OTHERWISE.
   e. PROVIDE STANDARD HOOKS IN TOP BARS AT CANTILEVER AND DISCONTINUOUS ENDS OF BEAMS, WALLS AND SLABS.
   f. PROVIDE CORNER BARS FOR ALL HORIZONTAL BARS AT THE INSIDE AND OUTSIDE FACES OF INTERSECTING BEAMS OR WALLS. CORNER BARS ARE NOT REQUIRED IF HORIZONTAL BARS ARE HOOKED.

5. WELDING OF REINFORCING STEEL WILL NOT BE PERMITTED.

6. HEAT SHALL NOT BE USED IN THE FABRICATION OR INSTALLATION OF REINFORCEMENT.

MASONRY

1. CONCRETE MASONRY UNITS: ASTM C 90 AND AS FOLLOWS:

2. MORTAR FOR ALL MASONRY WORK SHALL CONFORM TO ASTM SPECIFICATION C 270, TYPE M.

3. ALL MASONRY SHALL BE LAID WITH FULL HEAD AND BED JOINTS WITH FULL MORTAR COVERAGE ON THE FACE SHELLS AND WEBS OF HOLLOW UNIT MASONRY.

4. HOLLOW UNIT MASONRY CELLS OF WALLS OR PILASTERS SHALL BE FILLED WITH POURED CONCRETE GROUT. CELLS SHALL BE FILLED IN VERTICAL LIFTS NOT TO EXCEED 4 FEET, AND POURS SHALL BE STOPPED 1.5 INCHES BELOW THE TOP OF A BLOCK COURSE. VERTICAL REINFORCING SHALL BE CONTINUOUS.

5. VERTICAL REINFORCING BARS SHALL BE HELD IN PLACE AT TOP AND BOTTOM OF EACH LIFT WITH VERTICAL BAR POSITIONERS.

6. HORIZONTAL REBAR IN BOND BEAMS SHALL BE LAP–SPLICED 2'–8".

7. PREFABRICATED LADDER TYPE HORIZONTAL WALL REINFORCEMENT SHALL HAVE 6" MINIMUM SIDE ROD LAPS. USE PREFABRICATED CORNER REINFORCEMENT @ ALL WALL INTERSECTIONS. EMBED JOINT REINFORCEMENT WITH MINIMUM 5/8" COVER TO FACES EXPOSED TO WEATHER OR EARTH, AND 1/2" ELSEWHERE.

8. MASONRY CLEANER: USE POTABLE WATER AND DETERGENTS TO CLEAN MASONRY UNLESS OTHERWISE APPROVED. DO NOT USE ACID OR CAUSTIC SOLUTIONS UNLESS OTHERWISE APPROVED.

GROUT FOR MASONRY

1. THE GROUT MIX DESIGN SHALL BE IN ACCORDANCE WITH ASTM C 476 AND CONTAIN COARSE AGGREGATE. READY–MIX GROUT SHALL BE SPECIFICALLY FOR FILLING CELLS AND BOND BEAMS OF REINFORCED MASONRY. IT SHALL BE A COARSE MIXTURE MEETING ASTM C 476, WITH SLUMP OF 8" TO 11". SPEC MIX CORE FILL MASONRY GROUT (COARSE) OR AN APPROVED EQUAL SHALL BE USED.

2. SLUMP SHALL BE 8" TO 11" AS MEASURED ACCORDING TO ASTM C 143.

3. GROUT KEYS ARE REQUIRED BETWEEN GROUT POURS, OR BETWEEN LIFTS WHEN THE PREVIOUS LIFT IS PERMITTED TO SET PRIOR TO PLACEMENT OF THE SUBSEQUENT LIFT.
   A. FORM GROUT KEY BY TERMINATING THE GROUT A MINIMUM OF 1 1/2" BELOW A MORTAR JOINT.
   B. DO NOT FORM GROUT KEYS WITHIN BEAMS.
   C. AT BEAMS OR LINTELS LAID WITH CLOSED BOTTOM UNITS, TERMINATE THE GROUT POUR AT THE BOTTOM OF THE BEAM OR LINTEL WITHOUT FORMING A GROUT KEY.

4. AT VERTICALLY REINFORCED MASONRY CELLS, DO NOT ALLOW MORTAR FINS TO PROJECT INTO THE CELL BY MORE THAN 5/8 ICNH.

INSTALLATION

1. USE FULL–SIZE UNITS WITHOUT CUTTING IF POSSIBLE. IF CUTTING IS REQUIRED TO PROVIDE A CONTINUOUS PATTERN OR TO FIT ADJOINING CONSTRUCTION, CUT UNITS WITH MORTOR–DRIVEN SAWS; PROVIDE CLEAN, SHARP, UNCHIPPED EDGES. ALLOW UNITS TO DRY BEFORE LAYING UNLESS WETTING OF UNITS IS SPECIFIED. INSTALL CUT UNITS WITH CUT SURFACES AND, WHERE POSSIBLE, CUT EDGES CONCEALED.POINT AND TOOL HOLES IN MORTAR JOINTS TO PRODUCE A UNIFORM, TIGHT JOINT.

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STRUCTURAL NOTES
THE GREEN
CITY OF LONGVIEW, TEXAS

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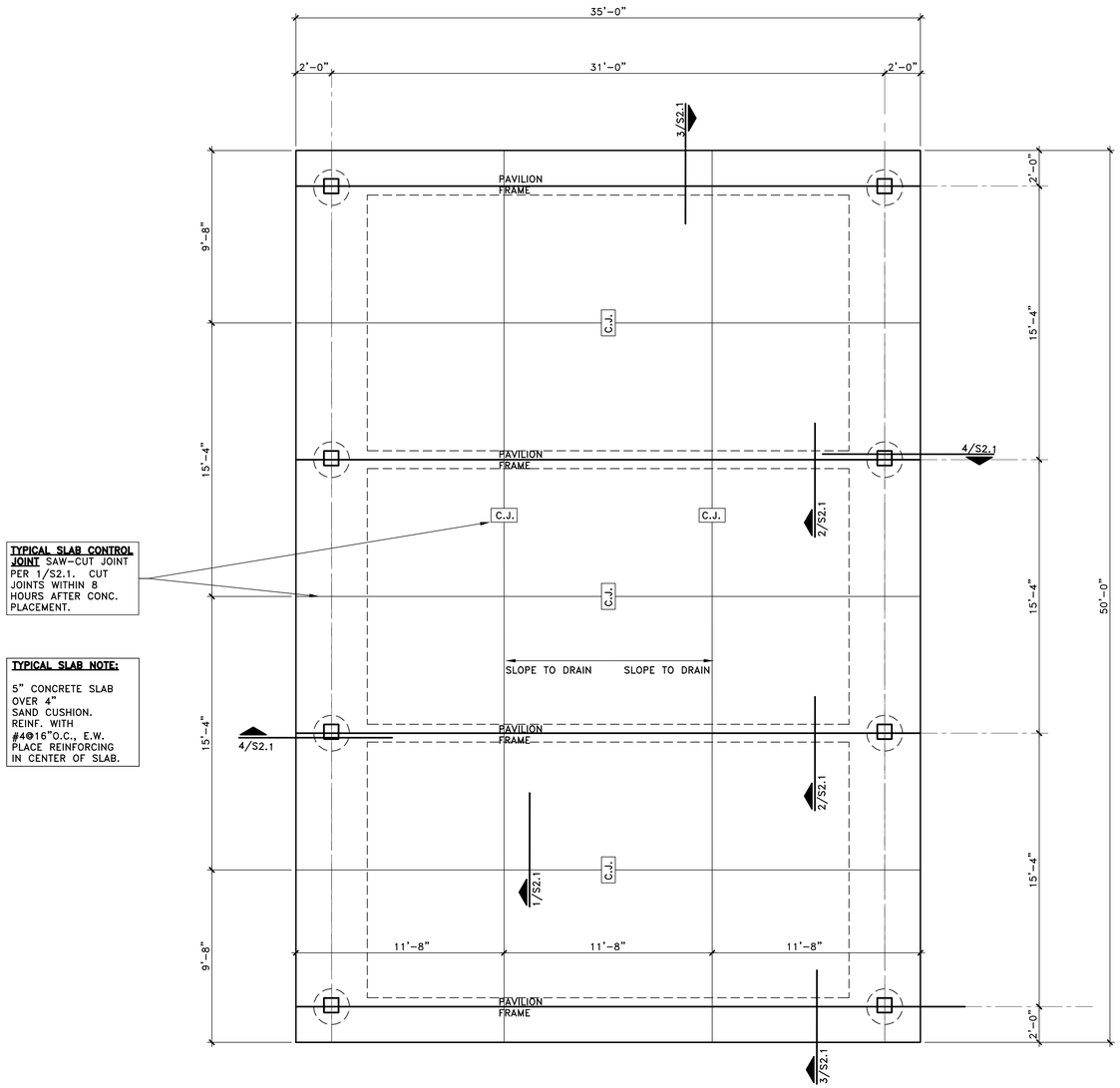
S1.0 OF 3
Structural Sheets



TYPICAL SLAB CONTROL JOINT SAW-CUT JOINT PER 1/S2.1. CUT JOINTS WITHIN 8 HOURS AFTER CONC. PLACEMENT.

TYPICAL SLAB NOTE:

5" CONCRETE SLAB OVER 4" SAND CUSHION. REINF. WITH #4@16"O.C., E.W. PLACE REINFORCING IN CENTER OF SLAB.

SUBGRADE PREPARATION:

ALL SUBGRADE PREPARATION AND SELECT FILL OPERATIONS SHALL BE IN ACCORDANCE WITH GEOTECHNICAL INVESTIGATION. MINIMUM OVEREXCAVATION DEPTH SHALL BE AS NOTED IN THE GEOTECHNICAL REPORT. THE FILL SHALL EXTEND BEYOND THE LIMITS OF THE BUILDING, PORCHES AND CANOPIES, AS SPECIFIED IN THE GEOTECHNICAL INVESTIGATION. COMPACTED SELECT FILL PLACEMENT OPERATIONS SHALL BE OBSERVED BY THE TESTING LABORATORY IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

CONTRACTOR NOTE:

FURNISH AND INSTALL 15 MIL. ASTM E 1745 CLASS A VAPOR RETARDER UNDER ALL INTERIOR SLABS ON GRADE. VAPOR RETARDER SHALL BE STEGO WRAP OR APPROVED ALTERNATE.
PERMEANCE AS TESTED AFTER MANDATORY CONDITIONING LESS THAN 0.01 PERMS.

VAPOR RETARDER SHEETS SHALL BE INSTALLED OVER LEVEL, COMPACTED 4" SAND CUSHION WITH 6" JOINT LAPS. JOINT LAPS SHALL BE CONTINUOUSLY SEALED WITH TAPE PROVIDED BY MANUFACTURER. SEAL CAREFULLY AROUND ALL PIPES, CONDUITS, ETC., WHICH PENETRATE THE SLAB. SEAL ALL TEARS AND PUNCTURES PRIOR TO PLACING CONCRETE.

FOUNDATION NOTES

1. SHEET INDEX:
   - S0.1 STRUCTURAL NOTES AND SPECIFICATIONS
   - S1.1 PAVILION FOUNDATION PLAN
   - S2.1 TYPICAL FOUNDATION DETAILS & ENTRY SIGN STRUCTURAL DETAILS
2. REFERENCE FIN. FLOOR ELEV. = 100'-0" U.N.O.
   ACTUAL ELEV. -COORDINATE WITH MHS PLANNING & DESIGN.
3. FOOTINGS SHALL BE LOCATED AT CENTERLINES OF STEEL COLUMNS U.N.O.

PAVILION FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

1 / S2.1

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PAVILION PLAN
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S1.1 OF 3
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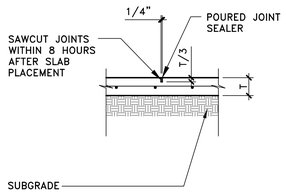

CONTROL JOINT DETAIL (1 / S2.1)
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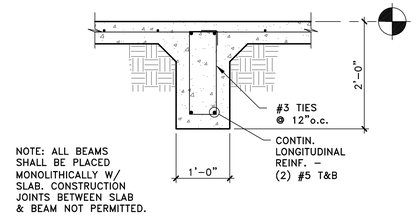

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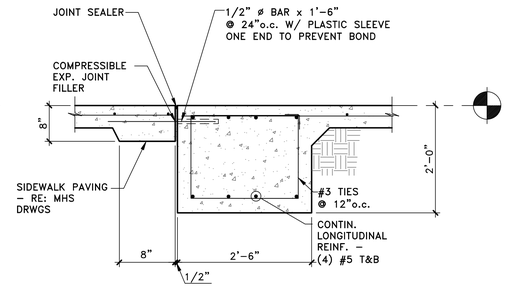

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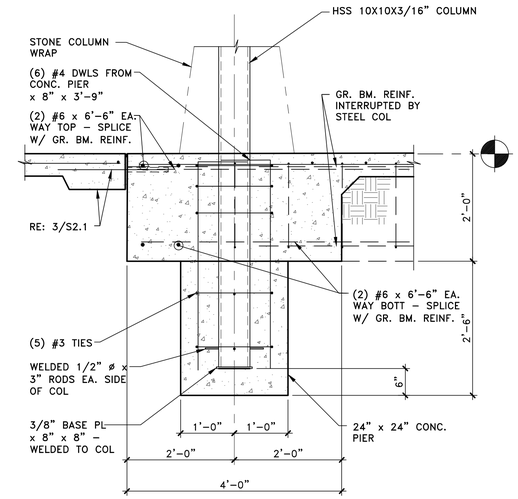

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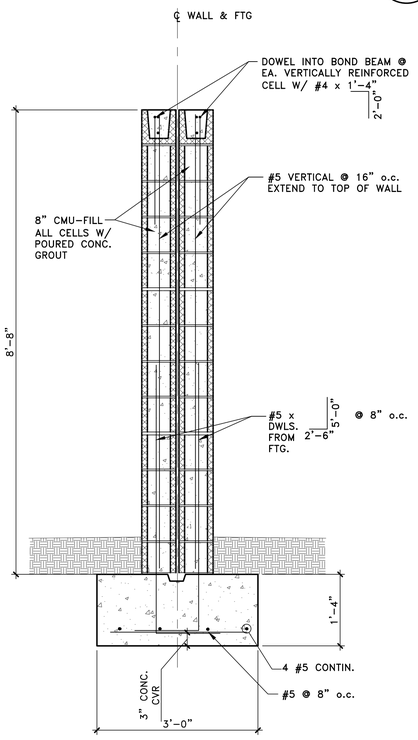

ENTRY SIGN SECTION (5 / S2.1)
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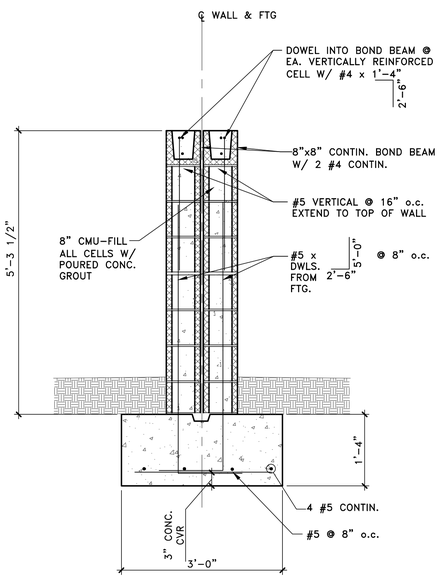

ENTRY SIGN SECTION (6 / S2.1)
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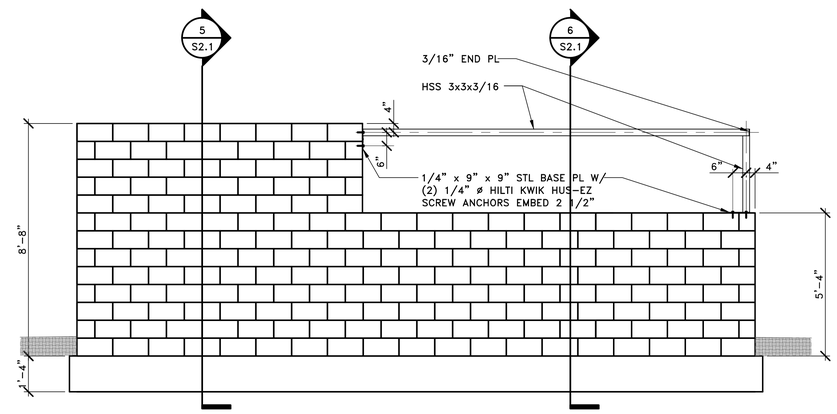
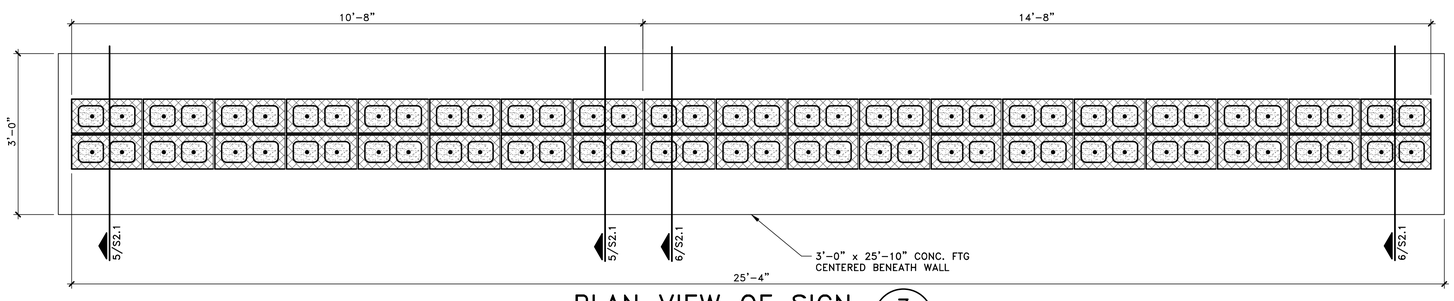


WALL ELEVATION (8 / S2.1)
SCALE: 3/8" = 1'-0"



PLAN VIEW OF SIGN (7 / S2.1)
SCALE: 3/4" = 1'-0"

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