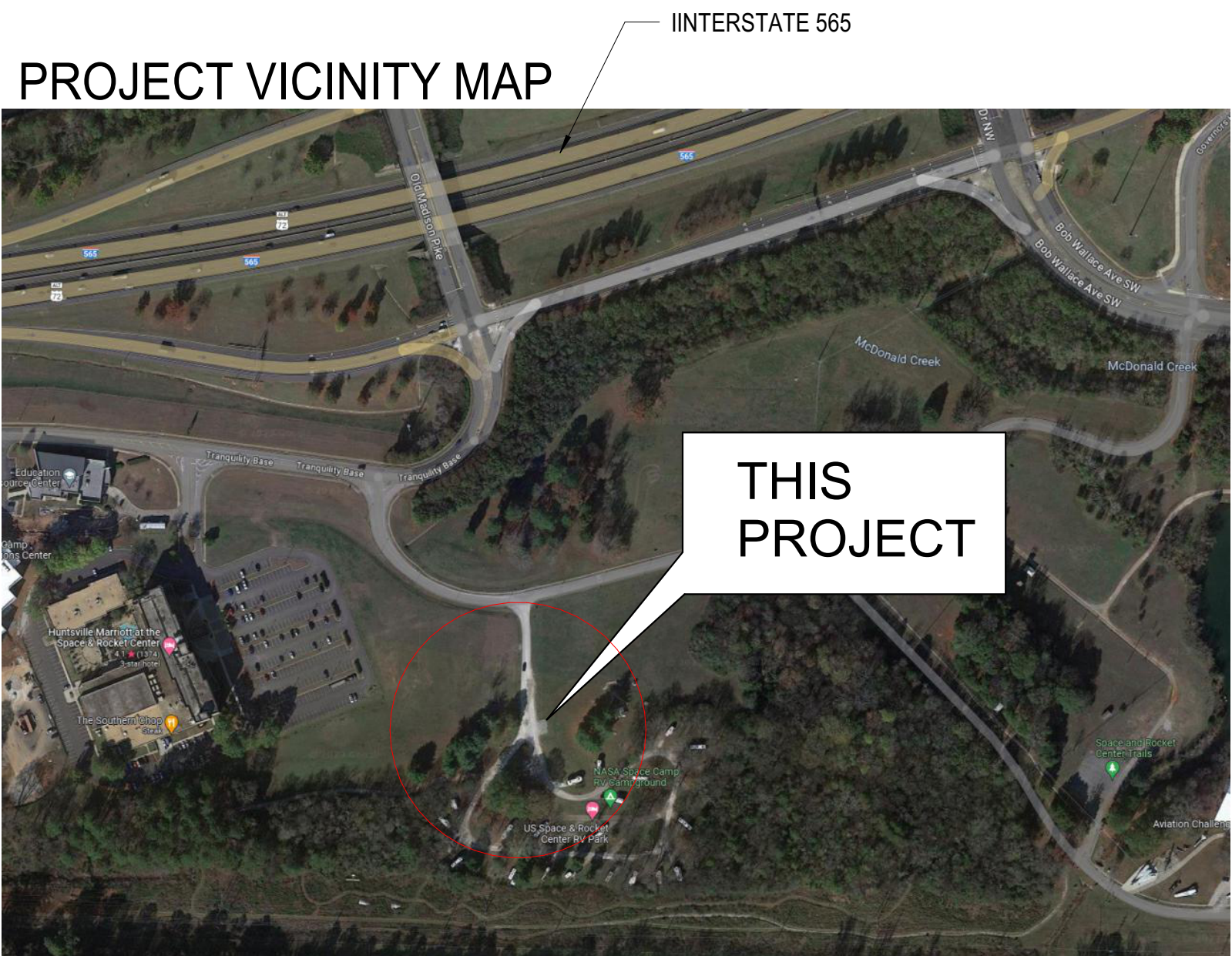


USSRC - INSPIRATION 4 TRAINING FACILITY

1 Tranquility Base
Huntsville, AL 35805
UNITED STATES SPACE AND ROCKET CENTER



ISSUED SET: BID SET
FOR CONSTRUCTION
ISSUE DATE: FEBRUARY 05, 2024

PROJECT DIRECTORY

OWNER:
UNITED STATES SPACE AND ROCKET CENTER
1 Tranquility Base
Huntsville, AL 35805

ARCHITECT OF RECORD
KPS GROUP, INC.
104 Jefferson St. S. Suite 200,
Huntsville, AL 35801
www.kpsgroup.com

LANDSCAPE ARCHITECT
SCHOEL ENGINEERING
7500 Memorial Pkwy SW STE 209
Huntsville, AL 35802
www.schoel.com

CIVIL ENGINEER
SCHOEL ENGINEERING
7500 Memorial Pkwy SW STE 209
Huntsville, AL 35802
www.schoel.com

STRUCTURAL ENGINEER
LBVD, Inc.
1525 Perimeter Parkway NW, Suite 510
Huntsville, AL 35806
www.northwindgrp.com/lbvd/

MECHANICAL ENGINEER
BBG&S Engineering Consultants, Inc.
2870 Old Rocky Ridge Road, Suite 115
Birmingham, AL 35243
www.bbgps.pro

**PLUMBING / FIRE PROTECTION
ENGINEER**
BBG&S Engineering Consultants, Inc.
2870 Old Rocky Ridge Road, Suite 115
Birmingham, AL 35243
www.bbgps.pro

ELECTRICAL ENGINEER
HYDE ENGINEERING
1525 Perimeter Parkway, Suite 275,
Huntsville, AL 35806
www.hyde-egr.com



K|P|S
GROUP

104 Jefferson St. S. Suite 200,
Huntsville, AL 35801
www.kpsgroup.com

This drawing is an Instrument of Service for this Project and is the sole and exclusive property of the Architect. Any use without the knowledge and written consent of the Architect is prohibited.

The Architect shall not have control or charge of, and shall not be responsible for construction Means and Methods, deviations, techniques, sequences, or procedures, or for safety programs and precautions in connection with the Work, for the acts or omissions of the Contractor, Subcontractors or any other persons performing any of the Work in accordance with the Contract Documents.



USSRC - INSPIRATION 4 TRAINING FACILITY

OWNER:
UNITED STATES SPACE AND ROCKET CENTER
PROJECT ADDRESS:
1 Tranquility Base
Huntsville, AL 35805



PROJECT STATUS:
ISSUED: FOR CONSTRUCTION

ISSUE DATE: FEBRUARY 05, 2024

REVISIONS
No. Description Date

DRAWING TITLE
COVER SHEET

DRAWN BY: Author
CHECKED BY: Checker

PROJECT NUMBER
225029-00

DRAWING NO.
G0.00

The Architect shall not have control or charge of, and shall not be responsible for construction Means and Methods, deviations, techniques, sequences, or procedures, or for safety programs and precautions in connection with the Work, for the acts or omissions of the Contractor, Subcontractors or any other persons performing any of the Work in accordance with the Contract Documents.

SHEET NO	SHEET NAME	ISSUE DATE	CURRENT REVISION		
			#	DATE	DESCRIPTION
GENERAL					
G0.00	COVER SHEET	02/05/24			
G0.01	SHEET INDEX	02/05/24			
G1.01	LIFE SAFETY PLAN - LEVEL 1	02/05/24			
G1.02	LIFE SAFETY PLAN - LEVEL 2	02/05/24			
CIVIL					
C-1.0	PROJECT NOTES	02/05/24			
C-2.0	TOPOGRAPHIC SURVEY	02/05/24			
C-3.0	EXISTING CONDITIONS & DEMOLITION PLAN	02/05/24			
C-4.0	SITE DEVELOPMENT PLAN	02/05/24			
C-5.0	LAYOUT PLAN	02/05/24			
C-6.0	GRADING PLAN	02/05/24			
C-7.0	EROSION CONTROL PLAN	02/05/24			
C-8.0	DRAINAGE PLAN	02/05/24			
C-9.0	SANITARY PLAN	02/05/24			
C-10.0	UTILITY PLAN	02/05/24			
C-11.1	DETAILS	02/05/24			
C-11.2	DETAILS	02/05/24			
C-11.3	DETAILS	02/05/24			
C-11.4	DETAILS	02/05/24			
LANDSCAPE					
L-1.0	IRRIGATION PLAN	02/05/24			
L1.0	LANDSCAPE PLAN	02/05/24			
L2.0	LANDSCAPE DETAILS	02/05/24			
ARCHITECTURE					
A0.01	ARCHITECTURAL SYMBOLS, ABBREVIATIONS & NOTES	02/05/24			
A0.02	FINISHES NOTES & GENERAL SCHEDULES	02/05/24			
A0.03	INTERIOR PARTITIONS - TYPES, NOTES & DETAILS	02/05/24			
A0.04	INTERIOR PARTITIONS - STANDARD DETAILS	02/05/24			
A1.00	ARCHITECTURAL SITE PLAN	02/05/24			
A1.01	FLOOR PLAN - LEVEL 1 OVERALL	02/05/24			
A1.02	FLOOR PLAN - LEVEL 2 OVERALL	02/05/24			
A1.03	ROOF PLAN	02/05/24			
A1.11	ENLARGED FLOOR PLAN LEVEL 1 WEST WING	02/05/24			
A1.12	ENLARGED FLOOR PLAN LEVEL 1 EAST WING	02/05/24			
A1.14	ENLARGED FLOOR PLAN LEVEL 2 WEST WING	02/05/24			
A1.15	ENLARGED FLOOR PLAN LEVEL 2 EAST WING	02/05/24			
A1.15A	ENLARGED FLOOR PLAN LEVEL 2 EAST WING ADD ALTERNATE 1	02/05/24			
A1.21	REFLECTED CEILING PLAN - LEVEL 1	02/05/24			
A1.22	REFLECTED CEILING PLAN - LEVEL 2	02/05/24			
A1.23A	REFLECTED CEILING PLAN - LEVEL 2 ADD ALTERNATE 1	02/05/24			
A1.31	FINISH PLAN - LEVEL 1	02/05/24			
A1.32	FINISH PLAN - LEVEL 2	02/05/24			
A1.41	CIRCULATION - ELEVATOR	02/05/24			
A1.42	CIRCULATION - WEST STAIR	02/05/24			
A1.43	CIRCULATION - EAST STAIR	02/05/24			
A1.44	CIRCULATION - MONUMENTAL STAIR	02/05/24			
A1.45	CIRCULATION - LEVEL 2 - LOBBY & BRIDGE	02/05/24			
A1.51	RESTROOMS - PLANS & ELEVATIONS	02/05/24			
A1.61	RECEPTION DESK	02/05/24			
A2.01	BUILDING ELEVATIONS	02/05/24			
A2.02	BUILDING ELEVATIONS	02/05/24			
A2.03	BUILDING ELEVATIONS	02/05/24			
A3.01	BUILDING SECTIONS	02/05/24			
A3.11	WALL SECTIONS	02/05/24			
A3.12	WALL SECTIONS	02/05/24			
A3.13	WALL SECTIONS	02/05/24			
A3.14	WALL SECTIONS	02/05/24			
A3.15	WALL SECTIONS - EAST WING	02/05/24			
A3.16	WALL SECTIONS - EAST WING	02/05/24			
A3.18	WALL SECTIONS - INTERIOR	02/05/24			
A4.01	INTERIOR ELEVATIONS	02/05/24			
A4.02	INTERIOR ELEVATIONS	02/05/24			
A4.03	INTERIOR ELEVATIONS	02/05/24			
A4.04	INTERIOR ELEVATIONS	02/05/24			
A5.01	DETAILS - PLAN	02/05/24			
A5.02	DETAILS - PLAN	02/05/24			
A5.10	DETAILS - CIRCULATION	02/05/24			
A5.12	DETAILS - SECTION	02/05/24			
A6.01	DETAILS - INTERIOR	02/05/24			
A6.11	DETAILS - MILLWORK	02/05/24			
A7.01	DOORS - SCHEDULE, TYPES & DETAILS	02/05/24			

SHEET NO	SHEET NAME	ISSUE DATE	CURRENT REVISION		
			#	DATE	DESCRIPTION
A7.02	DOORS - DETAILS	02/05/24			
A7.11	STOREFRONT - SCHEDULE & DETAILS	02/05/24			
A7.12	CURTAIN WALL - ELEVATOR HOISTWAY	02/05/24			
A7.13	CURTAIN WALL - SCHEDULE	02/05/24			
A7.14	CURTAIN WALL	02/05/24			
A7.15	CURTAIN WALL - DETAILS	02/05/24			
STRUCRURAL					
S0.01	ISOMETRIC	02/05/24			
S0.02	GENERAL NOTES	02/05/24			
S0.03	GENERAL NOTES (CONT.), ABBREVIATIONS & LEGENDS	02/05/24			
S0.04	SPECIAL INSPECTIONS	02/05/24			
S0.05	COMPONENTS AND CLADDING	02/05/24			
S0.06	TYPICAL DETAILS	02/05/24			
S0.07	TYPICAL DETAILS	02/05/24			
S0.08	TYPICAL DETAILS	02/05/24			
S1.11	FOUNDATION AND FIRST FLOOR PLAN - PART A	02/05/24			
S1.12	FOUNDATION AND FIRST FLOOR PLAN - PART B	02/05/24			
S1.13	SECOND FLOOR FRAMING PLAN - PART A	02/05/24			
S1.14	SECOND FLOOR FRAMING PLAN - PART B	02/05/24			
S1.15	ROOF FRAMING PLAN - PART A	02/05/24			
S1.16	ROOF FRAMING PLAN - PART B	02/05/24			
S3.01	FOUNDATION SECTIONS	02/05/24			
S3.02	FOUNDATION SECTIONS	02/05/24			
S3.03	FOUNDATION SECTIONS	02/05/24			
S3.04	FOUNDATION SECTIONS	02/05/24			
S4.01	SECOND FLOOR FRAMING SECTIONS	02/05/24			
S4.02	SECOND FLOOR FRAMING SECTIONS	02/05/24			
S4.03	SECOND FLOOR FRAMING SECTIONS	02/05/24			
S4.04	SECOND FLOOR FRAMING SECTIONS	02/05/24			
S4.05	SECOND FLOOR FRAMING SECTIONS	02/05/24			
S4.06	SECOND FLOOR FRAMING SECTIONS	02/05/24			
S4.07	SECOND FLOOR FRAMING SECTIONS	02/05/24			
S4.10	ROOF FRAMING SECTIONS	02/05/24			
S4.11	ROOF FRAMING SECTIONS	02/05/24			
S4.12	ROOF FRAMING SECTIONS	02/05/24			
S4.13	ROOF FRAMING SECTIONS	02/05/24			
S4.14	ROOF FRAMING SECTIONS	02/05/24			
S4.15	ROOF FRAMING SECTIONS	02/05/24			
S5.01	BRACING ELEVATIONS	02/05/24			
S5.02	BRACING ELEVATIONS	02/05/24			
S5.03	BRACING ELEVATIONS	02/05/24			
MECHANICAL					
M0.01	HVAC ABBREVIATIONS, GENERAL NOTES AND LEGENDS	02/05/24			
M0.02	HVAC DETAILS	02/05/24			
M0.03	OUTSIDE AIRFLOW	02/05/24			
M1.01	HVAC DETAILS	02/05/24			
M1.02	HVAC DETAILS	02/05/24			
M1.03	BUILDING AUTOMATION SYSTEM CONTROLS, DIAGRAMS & SEQUENCES OF OPERATION	02/05/24			
M1.04	BUILDING AUTOMATION SYSTEM CONTROLS, DIAGRAMS & SEQUENCES OF OPERATION	02/05/24			
M1.05	BUILDING AUTOMATION SYSTEM CONTROLS, DIAGRAMS & SEQUENCES OF OPERATION	02/05/24			
M2.11	LEVEL 1 FLOOR PLAN - WEST WING	02/05/24			
M2.12	LEVEL 1 FLOOR PLAN - EAST WING	02/05/24			
M2.13	LEVEL 2 FLOOR PLAN - WEST WING	02/05/24			
M2.14	LEVEL 2 FLOOR PLAN - EAST WING	02/05/24			
M2.15	ROOF PLAN - HVAC	02/05/24			

SHEET NO	SHEET NAME	ISSUE DATE	CURRENT REVISION		
			#	DATE	DESCRIPTION
PLUMBING					
P0.01	PLUMBING LEGEND, NOTES AND SCHEDULES	02/05/24			
P0.02	PLUMBING DETAILS	02/05/24			
P1.10	PLUMBING OVERALL BELOW SLAB PLAN	02/05/24			
P1.11	PLUMBING BELOW SLAB PLAN - EAST WING	02/05/24			
P1.12	PLUMBING BELOW SLAB PLAN - WEST WING	02/05/24			
P1.20	PLUMBING OVERALL NON-PRESSURE FLOOR PLANS	02/05/24			
P1.21	PLUMBING NON-PRESSURE 1ST FLOOR PLAN - EAST WING	02/05/24			
P1.22	PLUMBING NON-PRESSURE 1ST FLOOR PLAN - WEST WING	02/05/24			
P1.23	PLUMBING NON-PRESSURE 2ND FLOOR PLAN - EAST WING	02/05/24			
P1.24	PLUMBING NON-PRESSURE 2ND FLOOR PLAN - WEST WING	02/05/24			
P1.30	PLUMBING ROOF PLAN	02/05/24			
P1.31	PLUMBING ROOF PLAN - EAST WING	02/05/24			
P1.32	PLUMBING ROOF PLAN - WEST WING	02/05/24			
P2.10	PLUMBING OVERALL PRESSURE FLOOR PLANS	02/05/24			
P2.11	PLUMBING PRESSURE 1ST FLOOR PLAN - EAST WING	02/05/24			
P2.12	PLUMBING PRESSURE 1ST FLOOR PLAN - WEST WING	02/05/24			
P2.13	PLUMBING PRESSURE 2ND FLOOR PLAN - EAST WING	02/05/24			
P2.14	PLUMBING PRESSURE 2ND FLOOR PLAN - WEST WING	02/05/24			
P3.01	PLUMBING ENLARGED PLANS	02/05/24			
P3.02	PLUMBING ENLARGED PLANS	02/05/24			
P4.01	PLUMBING RISER DIAGRAMS	02/05/24			
P4.02	PLUMBING RISER DIAGRAMS	02/05/24			
P4.03	PLUMBING RISER DIAGRAMS	02/05/24			
P4.04	PLUMBING RISER DIAGRAM	02/05/24			
FIRE PROTECTION					
FP0.01	FIRE PROTECTION LEGEND, SCHEDULES AND DETAILS	02/05/24			
FP1.20	FIRE PROTECTION OVERALL FLOOR PLANS	02/05/24			
ELECTRICAL					
E0.1	LEGEND AND NOTES	02/05/24			
E0.2	RISER DIAGRAM AND DETAILS	02/05/24			
E0.3	PANEL SCHEDULES 480V	02/05/24			
E0.4	PANEL SCHEDULES 208V	02/05/24			
E0.5	PANEL SCHEDULES 208V AND EQUIPMENT SCHEDULES	02/05/24			
E0.6	FIRE RISER DIAGRAM AND DETAILS	02/05/24			
E0.7	LIGHT FIXTURE SCHEDULES AND DETAILS	02/05/24			
E0.8	DATA DETAILS	02/05/24			
E1.1	SITE PLAN - ELECTRICAL	02/05/24			
E2.1	FIRST FLOOR PLAN - WEST WING - LIGHTING	02/05/24			
E2.2	FIRST FLOOR PLAN - EAST WING - LIGHTING	02/05/24			
E2.3	SECOND FLOOR PLAN - WEST WING - LIGHTING	02/05/24			
E2.4	SECOND FLOOR PLAN - EAST WING - LIGHTING	02/05/24			
E3.1	FIRST FLOOR PLAN - WEST WING - POWER	02/05/24			
E3.2	FIRST FLOOR PLAN - EAST WING - POWER	02/05/24			
E3.3	SECOND FLOOR PLAN - WEST WING - POWER	02/05/24			
E3.4	SECOND FLOOR PLAN - EAST WING - POWER	02/05/24			
E4.1	FIRST FLOOR PLAN - WEST WING - AUXILIARY	02/05/24			
E4.2	FIRST FLOOR PLAN - EAST WING - AUXILIARY	02/05/24			
E4.3	SECOND FLOOR PLAN - WEST WING - AUXILIARY	02/05/24			
E4.4	SECOND FLOOR PLAN - EAST WING - AUXILIARY	02/05/24			
E5.1	FIRST FLOOR PLAN - WEST WING - HVAC	02/05/24			
E5.2	FIRST FLOOR PLAN - EAST WING - HVAC	02/05/24			
E5.3	SECOND FLOOR PLAN - WEST WING - HVAC	02/05/24			
E5.4	SECOND FLOOR PLAN - EAST WING - HVAC	02/05/24			
E6.1	ROOF PLAN - WEST WING - ELECTRICAL	02/05/24			
E6.2	ROOF PLAN - EAST WING - ELECTRICAL	02/05/24			
E7.1	SITE PLAN - LIGHTNING PROTECTION	02/05/24			
E7.2	ROOF PLAN - LIGHTNING PROTECTION	02/05/24			
E7.3	LIGHTNING PROTECTION DETAILS	02/05/24			

PROJECT ADDRESS
1 Tranquility Base
Huntsville, AL 35805



ISSUE DATE: FEBRUARY 05, 2024

REVISIONS		
No.	Description	Date

DRAWING TITLE
SHEET INDEX

DRAWN BY:	Author
CHECKED BY:	Checker

PROJECT NUMBER
225029-00

DRAWING NO.
G0.01

BUILDING LOCATION & DESCRIPTION OF USE:

BUILDING LOCATION: CITY OF HUNTSVILLE
SUMMARY DESCRIPTION: THE CONSTRUCTION DRAWINGS DESCRIBE THE SCOPE OF WORK REQUIRED FOR THE CONSTRUCTION OF AN EXHIBITION / TRAINING FACILITY PART OF THE CAMPUS OF THE US SPACE AND ROCKET CENTER.

BUILDING & LIFE SAFETY CODE ANALYSIS - MAIN BUILDING

CITY OF HUNTSVILLE, ALABAMA, ADOPTED CODES
2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL PLUMBING CODE
2021 INTERNATIONAL FUEL & GAS CODE
2021 NATIONAL ELECTRICAL CODE
2021 NATIONAL FIRE CODE
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
2009 ANSI - ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

	CODE ISSUE	DESCRIPTION / NFPA OR IBC REQUIREMENT	IBC REFERENCE	NOTES
CH. 3	USE AND OCCUPANCY REQUIREMENTS 1) BUILDING USE: 2) OCCUPANCY CLASSIFICATION: ACCESSORY OCCUPANCY OFFICES 3)SEPARATION OF OCCUPANCIES:	Amusement & Gymnasium, office MIXED ASSEMBLY GROUP A-3 BUSINESS GROUP B NON-SEPARATED	SECTION 303.4 SECTION 304 SECTION 508.3.1 AND TABLE 508.4	
CH. 4	SPECIAL DETAILED REQUIREMENTS ATRIUMS	OPENING CONNECTING TWO STORIES	SECTION 404	
		SMOKE CONTROL NOT REQUIRED ENCLOSURE OF ATRIUMS	SECTION 404.5 SECTION 404.6	EXCEPTION 1 EXCEPTION 4
CH. 5	BUILDING HEIGHT AND AREA LIMITATIONS (FULLY SPRINKLERED BUILDING) HEIGHT IN FT. NUMBER OF STORIES: MAXIMUM AREA (PER FLOOR) IN SF: AREA INCREASED BY: TOTAL (PER FLOOR) IN SF	75 3 28,500 7,125 35,625	TABLE 504.3 TABLE 504.4 TABLE 506.2 SECTION 506.2.4 & SECTION 506.3	
CH. 6	CONSTRUCTION TYPE BUILDING TO BE FULLY SPRINKLERED	IIIB	SECTION 602.2	SEE FIRE PROTECTION
	FIRE RESISTIVE RATING REQUIREMENTS PRIMARY STRUCTURAL FRAME BEARING WALLS - EXTERIOR BEARING WALLS - INTERIOR NON-BEARING WALLS & PARTITIONS - EXTERIOR FIRE SEPARATION DISTANCE <5' (X<5') BETWEEN 5' & 10' (5<=X<10) BETWEEN 10' & 30' (10<=X<30) FIRE SEPARATION DISTANCE >30' (X>=30') NON BEARING WALLS & PARTITIONS - INTERIOR FLOOR CONSTRUCTION & SECONDARY MEMBERS ROOF CONSTRUCTION & SECONDARY MEMBERS	0 HR 0 HR 0 HR 1 HR 1 HR 0 HR 0 HR 0 HR 0 HR 0 HR	TABLE 601 TABLE 601 TABLE 601 TABLE 602 TABLE 602 TABLE 602 TABLE 601 TABLE 601 & SECTION 202 TABLE 601 & SECTION 202	N/A N/A
CH. 7	FIRE-RESISTANCE-RATED CONSTRUCTION MAX AREA OF UNPROTECTED OPENINGS VERTICAL SEPARATION OF OPENINGS PARAPETS FIRE WALLS FIRE BARRIER ASSEMBLIES SHAFT ENCLOSURES EXIT ENCLOSURES EXIT ENCLOSURE @ MONUMENTAL STAIR NOT REQUIRED PER SECTION 1019.3.1 & 1019.3.5 EXIT PASSAGEWAYS HORIZONTAL EXITS INCIDENTAL USE AREAS STORAGE ROOM OVER 100SF FIRE PARTITIONS (CORRIDOR WALLS) SMOKE BARRIERS SMOKE PARTITIONS HOISTWAY ENCLOSURES HOISTWAY VENTING ELEVATOR MACHINE ROOMS ENCLOSURE SMOKEPROOF ENCLOSURE & PRESSURIZED STAIR	NO LIMIT N/A NOT REQUIRED N/A (1) HR (2) HR (1) HR (0) HR (1) HR (0) HR N/A N/A N/A N/A N/A N/A N/A N/A	TABLE 705.8 SECTION 705.8.5 SECTION 705.11 SECTION 706 SECTION 707 SECTION 713.4 SECTION 1019.1 TABLE 1020.1 SECTION 1021.1 TABLE 302.1.1 SECTION 706 SECTION 709 SECTION 710 SECTION 713.14, 3002.1 SECTION 3004 SECTION 3005	DISTANCE > 30FT EXCEPTION 1 & 2 EXCEPTION 1 N/A N/A W/ SPRINKLER S-M N/A
CH. 9	FIRE PROTECTION SYSTEMS AUTOMATIC SPRINKLER S-M - GROUP A-3 PORTABLE FIRE EXTINGUISHERS FIRE ALARM AND DETECTION SYSTEMS FIRE DEPARTMENT CONNECTIONS EMERGENCY RESPONDER RADIO COVERAGE	PROVIDED SEE PLANS	SECTION 903.2.1.3 SECTION 906 SECTION 907 SECTION 912 SECTION 918	SEE ELECTRICAL DWGS SEE PLUMBING DWGS SEE ELECTRICAL DWGS
CH. 10	MEANS OF EGRESS OCCUPANT LOAD ASSEMBLY (EXHIBIT, MUSEUM) BUSINESS ACCESSORY STORAGE EGRESS WIDTH per OCCUPANT SERVED STAIRWAYS OTHER EGRESS COMPONENT NUMBER OF MEANS OF EGRESS COMMON PATH OF TRAVEL DISTANCE BETWEEN 2 EXITS DISTANCE BETWEEN 3 EXITS ACCESSIBLE MEANS OF EGRESS AREA OF REFUGE NOT REQUIRED ELEVATOR AS ACCESSIBLE MEANS OF EGRESS AREA OF REFUGE NOT REQUIRED EXIT ACCESS THROUGH INTERVENING SPACES MAXIMUM EXIT ACCESS TRAVEL DISTANCE CORRIDOR FIRE RESISTANCE RATING MINIMUM CORRIDOR / AISLE WIDTH MAXIMUM DEAD END CORRIDOR LENGTHS VERTICAL EXIT ENCLOSURES STAIRWAY ENCLOSURES FOR 2 FLOORS EXIT DISCHARGE EXIT THRU AREAS ON LVL OF DISCHARGE EXIT - ASSEMBLY COMMON PATH OF TRAVEL	SEE PLANS 1 OCC PER 30 NSF 1 OCC PER 150 GSF 1 OCC PER 300 GSF 0.2" PER OCC 0.15" PER OCC SEE PLANS 75 OR 100 FEET >1/2 DIAGONAL >1/3 DIAGONAL 250 FEET 0 HR PER IBC 1005, BUT NOT LESS THAN 44 INCHES 20 AND 50 FEET 1 HR (MAX 50% CAPACITY) 30 FT	TABLE 1004.5 SECTION 1005.3.1 SECTION 1005.3.2 SECTION 1006 TABLE 1006.2.1 SECTION 1007.1.1 SECTION 1007.1.2 SECTION 1009.3 SECTION 1009.3.3 SECTION 1009.4.1 SECTION 1009.4.2 SECTION 1016 SECTION 1016.2 TABLE 1017.2 TABLE 1020.1 SECTION 1020.3 SECTION 1020.5 SECTION 1023 AND 707 SECTION 1023.1 SECTION 1028 SECTION 1023.1 SECTION 1030 SECTION 1030.8	EXCEPTION 1 EXCEPTION 1 EXCEPTION EXCEPTION 2 EXCEPTION 2 EXCEPTION 1 EXCEPTION 1

ZONING & PARKING ANALYSIS

REFER TO CIVIL DRAWINGS

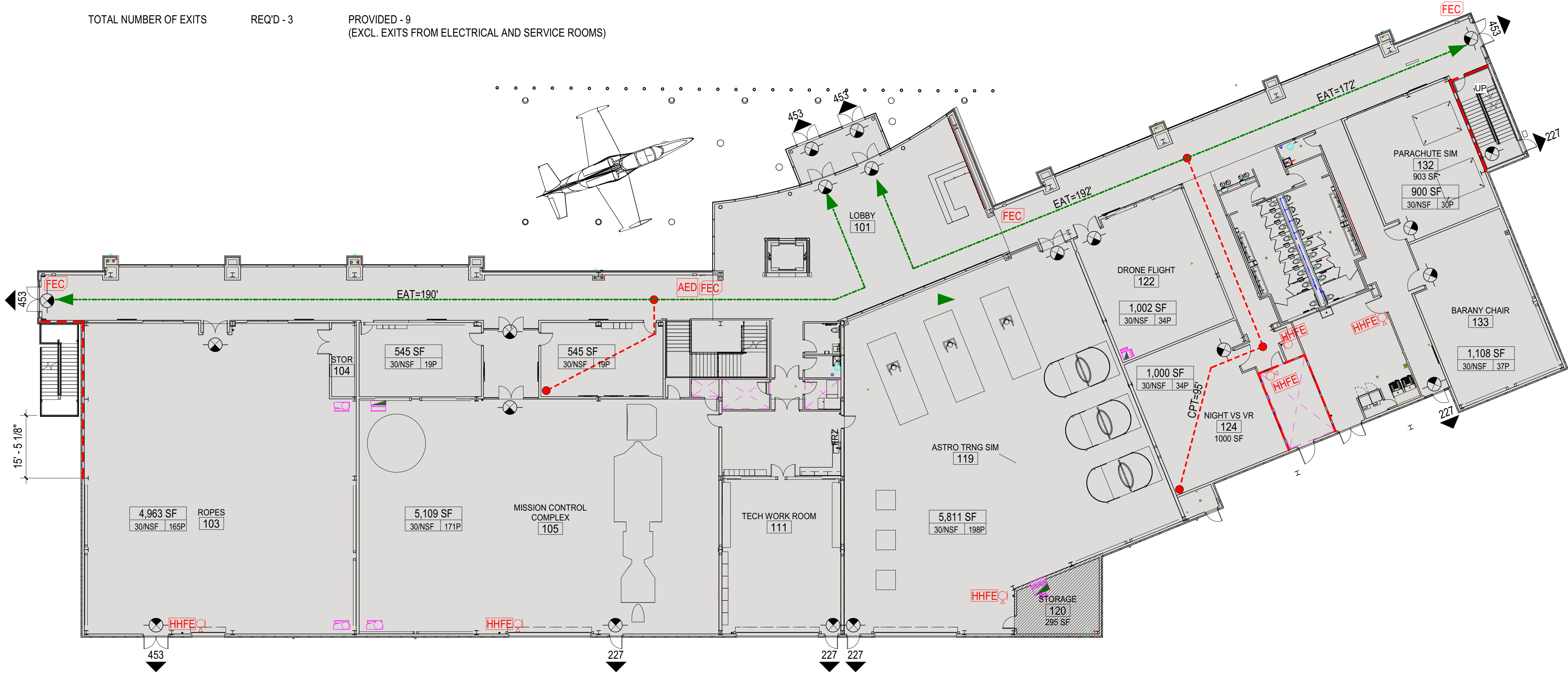
REQUIRED PLUMBING FIXTURES

IBC TABLE 2902.1

LEVEL 1							
OCCUPANCY	LOAD	WATER CLOSETS	LAVATORIES	D. FOUNTAINS	S. SINKS		
ASSEMBLY	699	1/125	1/65	1/200	1/500		
BUSINESS	93	1/25	1/25	1/40	1/100		
TOTAL	792						
FIXTURES REQUIRED							
ASSEMBLY	3	6	2	2	2	1	REQUIRED
BUSINESS	2	2	2	2	1		
TOTAL FIXTURES REQUIRED	5	8	4	4	3		
TOTAL FIXTURES PROVIDED	9	9+1	6	6+1	4	2	PROVIDED

OCCUPANCIES	AREA	OCCUPANT LOAD
ASSEMBLY A-3 :	20,983 NSF	699
BUSINESS:	14,043 GSF	94
TOTAL:	35,026 GSF	793

TOTAL NUMBER OF EXITS REQ'D - 3 PROVIDED - 9 (EXCL. EXITS FROM ELECTRICAL AND SERVICE ROOMS)



A1 PLAN
G1.01

1/16" = 1'-0"

LIFE SAFETY - LEVEL 1

LIFE SAFETY LEGEND

- EXIT SIGN - WALL MOUNTED
- EXIT SIGN - CEILING MOUNTED
- EXIT CAPACITY
- MAX. PEOPLE COUNT
- SURFACE MNTD / RECESSED FIRE EXTINGUISHER CABINET
- HAND HELD FIRE EXTINGUISHER
- AUTOMATED EXTERNAL DEFIBRILLATOR IN CABINET
- 1-HOUR FIRE RATED WALL
- PATH OF EXIT ACCESS TRAVEL
- COMMON PATH OF TRAVEL
- AREA (NET SQUARE FT.)
- ALLOWABLE # OF PEOPLE (OCCUPANCY)
- OCCUPANCY FACTOR

K|P|S GROUP

104 Jefferson St., Suite 200,
Huntsville, AL 35801
www.kpsgroup.com

This drawing is an Instrument of Service for this Project and is the sole and exclusive property of the Architect. Any use without the knowledge and written consent of the Architect is prohibited.

The Architect shall not have control or charge of, and shall not be responsible for construction Means and Methods, deviations, techniques, sequences, or procedures, or for safety programs and precautions in connection with the Work, for the acts or omissions of the Contractor, Subcontractors or any other persons performing any of the Work in accordance with the Contract Documents.



USSRC - INSPIRATION 4 TRAINING FACILITY

OWNER
UNITED STATES SPACE AND ROCKET CENTER

PROJECT ADDRESS
1 Tranquility Base
Huntsville, AL 35805



PROJECT STATUS: BID SET

ISSUED: FOR CONSTRUCTION

ISSUE DATE: FEBRUARY 05, 2024

REVISIONS

No. Description Date

DRAWING TITLE
LIFE SAFETY PLAN - LEVEL 1

DRAWN BY: Author
CHECKED BY: Checker

PROJECT NUMBER
225029-00

DRAWING NO.
G1.01

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR MAKING APPLICATION, AND PAYING FOR ALL NECESSARY PERMITS. ALL PERMITS MUST BE IN HAND BEFORE CONSTRUCTION BEGINS.
2. THE CONTRACTOR SHALL PREVENT THE DESTRUCTION OF ALL SURVEY MONUMENTS, BENCH MARKS, PROPERTY CORNERS AND ALL OTHER SURVEY POINTS. THE CONTRACTOR IS TO INFORM THE CONSULTANT IN WRITING, PRIOR TO THE DISTURBANCE OF ANY MONUMENT, AND IS NOT TO DISTURB THE POINT UNTIL WRITTEN PERMISSION TO DO SO HAS BEEN GRANTED BY THE CONSULTANT.
3. ALL EXISTING TREES AND SHRUBS OUTSIDE OF THE LIMITS OF WORK SHALL BE PROTECTED DURING CONSTRUCTION, AND ARE NOT TO BE DAMAGED IN ANY MANNER.
4. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS THAT ARE TO REMAIN ON OR OFF SITE DUE TO CONSTRUCTION OF THIS PROJECT. ANY DAMAGES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL OF ALL BOULDERS, DEBRIS, EXCESS CONSTRUCTION MATERIALS AND MATERIAL GENERATED FROM ANY DEMOLITION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING EXISTING UTILITIES LOCATED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONSULTANT/SURVEYOR ASSUME NO RESPONSIBILITY AS TO THE ACCURACY OR COMPLETENESS OF THE EXISTING UTILITIES SHOWN ON THE PLANS.
7. UNLESS INDICATED OTHERWISE ON THE PLANS, ALL STORM DRAINAGE PIPES SHALL BE REINFORCED CONCRETE CLASS III (ASTM C-76). COMPACTED GRANULAR MATERIAL FOR BEDDING SHALL BE REQUIRED AS SHOWN ON THE PIPE BEDDING DETAIL.
8. UNLESS INDICATED OTHERWISE ON THE PLANS, ALL RIP RAP SHALL BE CLASS II, IN ACCORDANCE WITH SECTION 814. ALDOT, LATEST EDITION, AND SHALL BE GROUTED WHERE INDICATED ON THE PLANS.
9. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
10. THE CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL DEVICES AND SAFETY MEASURES FOR THE CONSTRUCTION WORK WITHIN PUBLIC RIGHTS-OF-WAY AND OTHER AREAS WHICH REQUIRE ITS USE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (M.U.T.C.D.) LATEST EDITION.
11. ALL SIDEWALKS SHALL HAVE A 1.8% MAXIMUM CROSS SLOPE. ALL HANDICAP PARKING, RAMPS, SIGNS, AND SYMBOLS SHALL CONFORM TO THE LATEST AMERICANS WITH DISABILITIES ACT (ADA) SPECIFICATIONS. IF DISCREPANCIES ARISE, THE CONTRACTOR SHALL CONTACT THE CONSULTANT AND ENSURE THAT THESE REQUIREMENTS ARE MET.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXTENT, LOCATION, AND ELEVATION OF THE EXISTING IMPROVEMENTS. IF ANY DIFFERENCE IN SITE CONDITION OR ELEVATION IS FOUND, THE CONTRACTOR SHALL NOTIFY THE PROJECT CONSULTANT IMMEDIATELY.
13. THE CONTRACTOR SHALL CHECK THE ARCHITECTURAL AND MEP PLANS WITH THE SITE PLAN FOR ANY DISCREPANCIES BEFORE THE WORK BEGINS. THE CONSULTANT IS NOT RESPONSIBLE FOR ARCHITECTURAL AND MEP CHANGES AFTER PLANS HAVE BEEN SUBMITTED OR CHANGES MADE DURING CONSTRUCTION.
14. ANY MAJOR CHANGES OR REVISIONS MADE TO THE PLANS AFTER INITIAL APPROVAL SHALL BE OFFICIALLY SUBMITTED FOR APPROVAL TO THE CITY (COORDINATE WITH THE CONSULTANT AS REQUIRED), THE AFFECTED UTILITIES, AND ALL OTHER PERTINENT AGENCIES. APPROVAL OF CHANGES MUST BE RECEIVED BEFORE THE CONTRACTOR PERFORMS THE REQUESTED CHANGES/REVISIONS OR THEY WILL BE AT THE CONTRACTOR'S RISK.

EARTHWORK GENERAL NOTES:

1. THE SITE TOPOGRAPHY AND OTHER TOPOGRAPHIC DATA SHOWN ON THE PLANS OR INCLUDED IN THE SPECIFICATIONS ARE FOR THE INFORMATION OF THE CONTRACTOR. THE CONTRACTOR SHALL MAKE SUCH ADDITIONAL INVESTIGATIONS AS REQUIRED TO ACQUAINT HIMSELF ADEQUATELY WITH THE SITE, INCLUDING SUBSURFACE SOIL CONDITIONS, FOR PREPARATION OF HIS BID, AND FOR THE SUCCESSFUL EXECUTION OF THE WORK.
2. UNLESS INDICATED OTHERWISE ON THE PLANS, ALL PROPOSED CONTOURS AND ALL PROPOSED SPOT ELEVATIONS SHOWN ARE TO FINISHED GRADE. THE CONTRACTOR SHALL MAKE SUB-GRADE ADJUSTMENTS FOR TOPSOIL, PAVING, BUILDING PAD, ETC.
3. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE PROTECTION OF HIS WORK. SUCH GRADING AS IS REQUIRED FOR THIS PURPOSE SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER. THE OWNER MAY DIRECT THE CONTRACTOR TO PERFORM SUCH GRADING AND DRAINAGE AS IS NECESSARY TO PREVENT SURFACE RUNOFF FROM DAMAGING THE WORK.
4. ALL EARTH FILL SHALL BE COMPACTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS, GEOTECHNICAL RECOMMENDATIONS, OR GOVERNING MUNICIPALITY STANDARDS, WHICHEVER IS GREATER.
5. ALL EARTH FILL SHALL BE PLACED IN UNIFORM LAYERS OR LIFTS NOT EXCEEDING 6" IN COMPACTED THICKNESS, UNLESS INDICATED OTHERWISE ON THE PLANS.
6. ALL EARTH FILL SHALL BE PLACED IN ACCORDANCE WITH SECTION 210, ALDOT, LATEST EDITION. ALL EARTH FILL UNDER BUILDINGS SHALL ALSO MEET REQUIREMENTS OF THE ARCHITECT'S PLANS AND SPECIFICATIONS.
7. IF A GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THE SITE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING THE SITE PREPARATION RECOMMENDATIONS SPECIFIED WITHIN THIS DOCUMENT, UNLESS MORE STRINGENT REQUIREMENTS ARE GIVEN ON THE PLANS.
8. ANY EXCESS EXCAVATION CREATED BY GRADING OPERATIONS SHALL BE CONSIDERED WASTE AND SHALL BE HAULED OFF AND DISPOSED OF LEGALLY AT THE CONTRACTOR'S EXPENSE OR NEGOTIATED WITH OWNER TO DISPOSE OF ON SITE.
9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DRAINAGE AWAY FROM THE EXISTING AND PROPOSED BUILDINGS, CONCRETE PAVING, AND SIDEWALKS. THERE SHALL BE NO PONDING OF WATER ON THE SITE.
10. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND CONDITIONS OF ALL UTILITIES TO BE UTILIZED FOR CONSTRUCTION SERVICE HOOK UPS, STORM SEWERS, AND SANITARY SEWERS PRIOR TO PROCEEDING WITH THE LAYING OF PIPE. THE CONTRACTOR SHALL NOTIFY THE PROJECT CONSULTANT IMMEDIATELY OF ANY CONFLICTS OR DISCREPANCIES. ALL SERVICE CONNECTIONS TO UTILITIES SHALL BE APPROVED BY THE RESPECTIVE UTILITY AND SHALL CONFORM TO THE LATEST SPECIFICATIONS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL UTILITY LOCATIONS WITH THE LOCAL UTILITIES. CONTACT WITH EACH UTILITY SHOULD BE MADE BY THE CONTRACTOR BEFORE ANY CONSTRUCTION BEGINS ON THIS PROJECT.
12. CONTRACTOR TO COORDINATE ANY UTILITY SHUTOFFS WITH OWNER 7 DAYS PRIOR TO WORK. ALL EFFORTS SHOULD BE MADE TO MINIMIZE SHUTOFF TO UTILITIES SERVING OTHER FACILITIES.
13. UNSTABLE AND PUMPING SUBGRADE CONDITIONS MAY OCCUR DURING SITE PREPERATION AND UNDERCUTTING OPERATIONS. PROPER PROTECTION OF SUBGRADE, DRAINAGE, AND Dewatering WILL BE CRITICAL TO SITE CONSTRUCTION EFFORTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MINIMIZE EQUIPMENT TRAFFIC ACROSS THE SITE. EVERY EFFORT SHALL BE MADE TO LOCALIZE EQUIPMENT TAGGING AND TRAFFIC TO SPECIFIC AREAS AND LIMIT THE AMOUNT OF UNDERCUTTING AND SOIL STABILIZATION THAT MAY BE NEEDED.
14. THE CONTRACTOR IS TO COORDINATE ALL EARTHWORK WITH THE GEOTECHNICAL EVALUATION. IF NO GEOTECHNICAL REPORT HAS BEEN PERFORMED, THE CONSULTANT ASSUMES NO LIABILITY IN SITE FEATURES THAT RELY ON GEOTECHNICAL EVALUATIONS SUCH AS PAVEMENT BUILD-UP (DESIGN), WALLS, ETC. SPECIFIC CONSTRUCTION CONCERNS AND ACTUAL CONSTRUCTION MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND FAMILIARIZING HIMSELF WITH THE SITE AND WITH THE GEOTECHNICAL REPORT IF ONE IS PERFORMED AT A LATER DATE.

SEEDING NOTES:

1. THE CONTRACTOR IS REQUIRED TO FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR THE SEEDING OF ALL DISTURBED AREAS AND OTHER AREAS SPECIFIED ON THE GRADING PLANS. ALL SPECIFIED SURFACE AREAS SHALL BE SEEDED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS.
2. TOPSOIL SHALL BE STRIPPED AND STOCKPILED DURING CONSTRUCTION. A MINIMUM OF 6" OF CONDITIONED AND AMENDED TOPSOIL SHALL BE RESPREAD OVER ALL AREAS SPECIFIED FOR SEEDING. GRADING SHALL CONFORM WITH THE GRADING PLAN.
3. SEEDING SHALL BE AS FOLLOWS: (A) "REBEL" OR "FALCON" FESCUE SEED (UNTIL APRIL 15") WITH 95% GERMINATION. APPLICATION RATE SHALL BE 8 LBS. PER 1,000 SQUARE FEET. (B) BERMUDA SEED (FROM APRIL 15" TO AUGUST 15") WITH 95% GERMINATIONS. APPLICATION RATE SHALL BE 3 LBS. PER 1,000 SQUARE FEET.
4. SOIL AMENDMENT SHALL BE RECOMMENDED USING LIME OR SULFUR TO ACHIEVE A SOIL PH OF 5.5 TO 6.5.
5. "2-4-D ROUNDUP" OR EQUIVALENT POST-EMERGENT HERBICIDE SHALL BE REQUIRED TO KILL EXISTING WEEDS PRIOR TO SEEDING. "TRIFLURALIN", "DACTAL" OR EQUIVALENT PRE-EMERGENT HERBICIDE SHALL BE REQUIRED FOR ALL SEEDED AREAS TO PREVENT WEED GERMINATION.
6. PROTECTION OF SEEDED AREAS ON STEEP SLOPES SHALL BE REQUIRED FOR ALL SEEDED AREAS TO PREVENT WEED GERMINATION.
7. PROTECTION OF SEEDED AREAS ON STEEP SLOPES SHALL BE PROVIDED USING AN EROSION CONTROL BLANKET WHERE INDICATED ON THE PLANS. APPLY BLANKET TO THE SLOPE AFTER PROPER PREPARATION AND SEEDING OF THE GROUND.

EROSION CONTROL NOTES:

1. TEMPORARY EROSION CONTROL DEVICES SHALL BE OBSERVED BY THE OWNER (OR OWNER'S REPRESENTATIVE) ON A PERIODIC BASIS, BUT NOT LESS THAN ONCE PER MONTH, AND THE GRADING CONTRACTOR SHALL MAKE ANY NECESSARY ADJUSTMENTS/REPAIRS AS REQUESTED BY THE OWNER.
2. THE MEASURES SHOWN ON THE PLANS ARE INTENDED FOR CONTROL DURING SITE CLEARING AND GRADING. ADDITIONAL MEASURES MAY BE REQUIRED AS SITE CONDITIONS CHANGE DURING CONSTRUCTION. ADDITIONAL MEASURES REQUIRED FOR COMPLIANCE SHALL BE INCLUDED IN BASE PRICING.
3. COORDINATE SEDIMENTATIONS AND EROSION CONTROL MEASURES WITH THE CLEARING AND GRUBBING OPERATION. THESE ACTIVITIES MUST OCCUR IN THE PROPER SEQUENCE IN RELATION TO ONE ANOTHER.
4. THE CONTRACTOR WILL INSTALL AND MAINTAIN THE EROSION AND SEDIMENT CONTROL MEASURES (BOTH TEMPORARY AND PERMANENT) ON A CONTINUING PROGRAM UNTIL THE SITE WORK IS COMPLETE AND THE SITE IS STABILIZED. THIS INCLUDES, BUT IS NOT LIMITED TO, REPAIRS OF DAMAGE FROM STORMS, REGULAR MAINTENANCE, AND REMOVAL / DISPOSAL OF ACCUMULATED SILT. SILT FENCES AND OTHER EROSION CONTROL DEVICES SHOULD BE INSPECTED AFTER EVERY SIGNIFICANT RAIN EVENT.
5. ALL EROSION CONTROL MEASURES COMPROMISED BY SEDIMENT BUILDUP, INCLUDING RIP RAP, SILT FENCE, HAY DAMS, CHECKS, OR OTHER DEVICES WILL BE REPAIRED OR REPLACED AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.
6. ANY PIPE, CREEK, OR OTHER STORM DRAINAGE FEATURE SHOWING EVIDENCE OF SEDIMENT ACCUMULATION SHALL BE CLEANED OUT. THE SEDIMENT REMOVED SHALL BE DISPOSED OF IN A LOCATION APPROVED BY THE OWNER OR HIS REPRESENTATIVE.
7. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF SILT/SEDIMENT (IF NOT REUSABLE ON-SITE) AND SHALL REMOVE ANY SILT/SEDIMENT BEYOND THE PROPERTY RESULTING FROM CONSTRUCTION OPERATIONS.
8. DO NOT DEPOSIT WASTE, LOOSE SOIL OR OTHER MATERIALS IN LIVE STREAMS, SWALES OR DRAINAGE WAYS, EXCEPT AS APPROPRIATE FOR EROSION CONTROL (E.G. LOG AND BRUSH CHECKS).
9. AFTER THE EROSION ACTIVITY HAS STABILIZED, THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION CONTROL DEVICES AT THE DIRECTION OF THE OWNER AND CLEANING UP AND DRESSING THE AREA TO THE SATISFACTION OF THE OWNER.
10. SILT FENCES ARE TEMPORARY EROSION CONTROL DEVICES THAT SHALL BE ERECTED OPPOSITE ERODABLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
11. IN FLAT AREAS, SILT FENCES SHOULD BE CONSTRUCTED IN THE SHAPE OF A HORSESHOE, WHENEVER POSSIBLE, SO AS TO AID IN PONDING AND TO FACILITATE SEDIMENTATION.
12. SILT FENCING OR OTHER APPROPRIATE EROSION CONTROL MEASURES AS DIRECTED ON THE PLANS SHALL BE PLACED AT THE DOWNSTREAM EDGE OF ALL DISTURBED AREAS.
13. HAY BALES ARE TEMPORARY EROSION CONTROL DEVICES THAT SHALL BE USED IN CONJUNCTION WITH OTHER EROSION CONTROL DEVICES. BALES MAY BE EITHER HAY OR STRAW CONTAINING FIVE (5) CUBIC FEET OF MATERIAL WEIGHING NOT LESS THAN 35 POUNDS AND SECURED WITH TWO STAKES AS SHOWN IN THE HAY BALE DETAIL.
14. ALL STORM SEWER INLETS IN DISTURBED AREAS OR IN OTHER AREAS SUBJECT TO POTENTIAL INFLOW OF SEDIMENT SHALL BE PROTECTED AT A MINIMUM WITH WATTLES AND SILT FENCE.
15. ADDITIONAL SILT FENCES, WATTLES OR CHECK DAMS MAY BE REQUIRED TO CONTROL SILTING OR EROSION AS CONSTRUCTION PROGRESSES AND SHALL BE INCLUDED IN PRICING.
16. ALL DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR MORE THAN 13 DAYS MUST BE SEEDED AND MULCHED.
17. AS NECESSARY, ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL PREVENT SILT FROM LEAVING THE PROJECT CONFINES DUE TO EXTREME WEATHER CONDITIONS OR ACCIDENTS.
18. ANY DISTURBANCE OF SOIL AND VEGETATION OUTSIDE THE LIMITS OF THE CLEARING LINE WILL NOT BE PERMITTED UNDER ANY CONDITION. IF DISTURBANCE OCCURS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMEDIATE THE AREA AT NO ADDITIONAL COST TO THE OWNER.
19. PREVENT RUN-ON AND RUN-OFF FROM SOIL PILES BY SURROUNDING PILE WITH WATTLES AND/OR SILT FENCE.
20. PREVENT AND CONTROL SOIL EROSION AND GULLYING WITHIN THE PROPERTY COVERED BY CONTRACT AND THE ADJACENT PROPERTIES AS A RESULT OF CONSTRUCTION.
21. CONSTRUCT ROADSIDE DITCHES AS REQUIRED DURING ROAD CONSTRUCTION TO ALLOW STORM RUNOFF TO DRAIN.
22. ALL CONSTRUCTION STREAM CROSSINGS SHALL HAVE A 24" DIAMETER PIPE (OR LARGER, AS SUGGESTED BY THE CONSULTANT) INSTALLED TO CONVEY RUNOFF. THE AREA WHERE THE ROAD CROSSES THE STREAM SHALL BE RIP-RAPPED AS REQUIRED TO PREVENT SEDIMENT WASH-OFF FROM THE ROAD.
23. AN ACCESS ROUTE SUFFICIENT TO ALLOW THE USE OF APPROPRIATE MAINTENANCE EQUIPMENT SHALL BE EXTENDED TO EACH STRUCTURAL EROSION CONTROL DEVICE.
24. THE CONTRACTOR IS RESPONSIBLE FOR PROPER COLLECTION, STORAGE, AND DISPOSAL OF SOLID AND SANITARY WASTES. DISPOSAL OF THESE WASTES SHALL BE OFF-SITE IN AN APPROPRIATELY PERMITTED FACILITY.
25. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER ON-SITE HANDLING USE, STORAGE AND DISPOSAL OF PAINTS, SOLVENTS, CHEMICALS, PESTICIDES, HERBICIDES, FERTILIZERS, OILS, GREASE, FUEL, AND OTHER HAZARDOUS MATERIAL TO REDUCE EXPOSURE AND CONTAMINATION OF SOILS, STREAMS, CHANNELS, AND STORM WATER RUNOFF.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
27. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE NPDES PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST.
28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

EROSION & SEDIMENT CONTROL CONSTRUCTION SEQUENCE:

1. INSTALL CONSTRUCTION ENTRANCES WITH CRUSHED AGGREGATE BASE COURSE AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC WILL BE ENTERING AND EXITING THE SITE. CONSTRUCTION ENTRANCE USED FOR REMOVAL OF ONSITE MATERIALS SHALL EXTEND TO THE LOADING AREA, BUT IN NO CASE SHALL ANY CONSTRUCTION ENTRANCE BE LESS THAN 50 FEET IN LENGTH OR 6" IN DEPTH. WIDTH SHALL NOT BE LESS THAN 15 FEET.
2. INSTALL SEDIMENT TRAPS (IF ANY ARE INDICATED ON THE PLANS).
3. GRADE IN DRAINAGE SWALES AS NECESSARY TO DIRECT DRAINAGE FROM DISTURBED AREAS TO SEDIMENT TRAPS OR PROTECTED INLETS.
4. INSTALL SILT FENCES AT INDICATED LOCATIONS. INSTALL STRAW WATTLES AND GRAVEL BAG FILTERS AT STORM SEWER STRUCTURES AS THEY ARE CONSTRUCTED.
5. MULCH, LIME, FERTILIZE, SEED, SOD AND/OR STRAW ALL DISTURBED AREAS IMMEDIATELY FOLLOWING FINAL GRADING. CONTRACTOR SHALL COORDINATE BETWEEN THE EROSION CONTROL PLAN AND LANDSCAPE PLAN AS NECESSARY.
6. WASH DOWN CONSTRUCTION ENTRANCES AS NECESSARY TO LIMIT MUD AND DEBRIS BEING CARRIED ONTO ADJACENT ROADS. DRAINAGE FROM CONSTRUCTION ENTRANCE SHALL BE GRADED TO DRAIN TO SILT FENCES OR OTHER EROSION CONTROL MEASURES.
7. FOLLOWING COMPLETION OF PAVEMENT, STORM SYSTEM, AND MULCHING AND SEEDING ACTIVITIES: FLUSH OR CLEAN ALL SEDIMENT FROM STORM PIPE SYSTEM.
8. WHEN CONSTRUCTION IS COMPLETE AND UPON APPROVAL OF THE LOCAL GOVERNING AGENCY: REMOVE SILT FENCES AND GRAVEL BAG FILTERS, SPREAD AND GRADE COLLECTED MATERIALS, AND MULCH, LIME, FERTILIZE, SEED AND STRAW.
9. REMOVE SEDIMENT FROM DITCHES (PROPERLY DISPOSE OF IF OFFSITE) AND REGRADE TO DEPTH AND SIZE SHOWN ON THE GRADING PLAN. SPREAD AND GRADE COLLECTED MATERIALS, AND SEED.
10. REMOVE SEDIMENT TRAPS, AND SEED DISTURBED AREA.
11. SEE ADEM CONSTRUCTION BEST MANAGEMENT PRACTICES (CBMPF) PLANS FOR ADDITIONAL INFORMATION RELATED TO ADEM PERMITTED SITES. THE REQUIREMENTS AND RECOMMENDATIONS IN THE CBMPF ARE TO BE FOLLOWED TO KEEP THE PROJECT CONFORMANCE WITH THE SITE'S ADEM NPDES PERMIT.
12. ALL EROSION CONTROL DEVICES USED BY THE CONTRACTOR MUST MEET OR EXCEED REQUIREMENTS FOUND IN THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS.

PAVEMENT CONSTRUCTION GENERAL NOTES

1. ALDOT, LATEST EDITION, SHALL MEAN ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.
2. CRUSHED AGGREGATE BASE COURSE PLANT MIXED SHALL BE PLACED IN ACCORDANCE WITH SECTION 301, ALDOT, LATEST EDITION. ALL MATERIALS SHALL BE IN ACCORDANCE WITH SECTION 825, TYPE B, 100% COMPACTION.
3. PORTLAND CEMENT CONCRETE PAVEMENT SHALL BE PLACED IN ACCORDANCE WITH SECTION 450, ALDOT, LATEST EDITION.
4. BITUMINOUS CONCRETE BINDER LAYER SHALL BE PLACED IN ACCORDANCE WITH SECTION 424-B, ALDOT, LATEST EDITION.
5. BITUMINOUS CONCRETE WEARING SURFACE LAYER SHALL BE PLACED IN ACCORDANCE WITH SECTION 424-A, ALDOT, LATEST EDITION.
6. THE SITE SHALL BE CLEARED AND ALL UNSUITABLE MATERIALS REMOVED PRIOR TO PLACING AND COMPACTING ENGINEERED FILL.
7. ALL SUBGRADES SHALL BE CLEARED AND GRUBBED, SCARIFIED TO A DEPTH OF 6", AND THEN RECOMPACTED TO 100% OF THE MAXIMUM DRY DENSITY, PLUS OR MINUS 2% OF OPTIMUM MOISTURE (ASTM-D6798).
8. IN ROCK EXCAVATION, A MINIMUM OF 1 FOOT OF SOIL SHALL BE PLACED OVER ROCK PRIOR TO PLACEMENT OF BASE MATERIAL.
9. CONCRETE WHEEL STOPS ARE TO BE PRECAST 2500 PSI MIN. COMPRESSIVE STRENGTH CONCRETE, 5'1X9'XW12". WHEEL STOPS ARE TO BE SECURELY ATTACHED TO PAVEMENT WITH A MINIMUM OF 2-3/8"X18" GALVANIZED STEEL DOWELS EMBEDDED IN WHEEL STOPS 11" FROM ENDS, AND FIRMLY BONDED TO WHEEL STOPS AND PAVEMENT.
10. PAVEMENT MARKING PAINT SHALL BE ALKYD-RESIN TYPE, READY-MIXED, COMPLYING WITH FS TT-P-115, TYPE I, AASHTO M-248, TYPE N, OR LATEX WATER-BASE EMULSION, READY-MIXED, COMPLYING WITH FS TT-P-1952. APPLY PAVEMENT MARKING PAINT WITH MECHANICAL EQUIPMENT, PER THE MANUFACTURES RECOMMENDATIONS TO PRODUCE PAVEMENT MARKINGS OF DIMENSIONS INDICATED ON THE PLANS WITH UNIFORM, STRAIGHT EDGES, AND A MINIMUM WET FILM THICKNESS OF 15 MILS (0.4MM).
11. PAINTING OF PAVEMENT MARKINGS SHALL NOT BEGIN UNTIL PAVEMENT HAS ENDURED ADEQUATE CURING TIME AND UNTIL THE PAVEMENT SURFACE HAS BEEN POWER BROOMED AND HAND SWEEP AS NECESSARY TO REMOVE LOOSE MATERIAL AND SOIL.
12. THE CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING DIRT AND DEBRIS FROM ADJOINING STREETS DURING CONSTRUCTION, ANY DAMAGE TO ADJOINING AND EXISTING STREETS MUST BE REPAIRED BY THE CONTRACTOR DURING CONSTRUCTION.
13. UNLESS NOTED OTHERWISE, ALL PAVEMENT CUTS SHALL BE REPAIRED WITH MATERIAL AND DEPTHS IN KIND TO THAT REMOVED AND SHALL MEET PATCHING REQUIREMENTS OF THE MUNICIPALITY.
14. TEMPORARY AND PERMANENT PATCHING SHALL MEET THE REQUIREMENTS OF THE GOVERNING ENTITY.

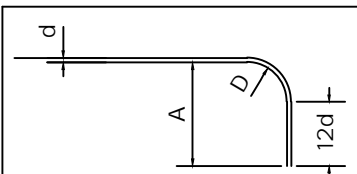
REINFORCED CONCRETE NOTES

1. ALL CONCRETE SHALL BE AIR ENTRAINED 3500 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, (CLASS "A"), UNLESS NOTED OTHERWISE ON THE PLANS OR REQUIRED OTHERWISE BY GOVERNING ENTITY.
2. ALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED WITH CONTINUOUS SHEAR KEYS IN ACCORDANCE WITH THE SHEAR KEY DETAIL ON THE PLANS.
3. ALL REINFORCING STEEL GOVERNED BY THE CIVIL ENGINEERING DRAWINGS, SHALL BE GRADE 60 DEFORMED BARS, AND SHALL CONFORM TO STM A615, FOR BILLET STEEL (UNLESS NOTED OTHERWISE).
4. LAP SPLICES AND BAR EMBEDMENT SHALL BE IN ACCORDANCE WITH THE TABLE ON THE PLANS.
5. CONCRETE AIR CONTENT AND SLUMP SHALL BE IN ACCORDANCE WITH THE TABLE ON THE PLANS.
6. ALL REINFORCING BARS SHALL BE SHOP BENT IN ACCORDANCE WITH THE TABLE ON THE PLANS. HEATING OF REINFORCING BARS TO BEND THEM, OR STRAIGHTEN THEM WILL NOT BE ALLOWED.
7. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, SMOOTH FABRIC WITH AN ASTM YIELD STRENGTH OF 65,000 PSI.

SHEAR KEY DETAIL				
WALL THICKNESS (D)	NOMINAL KEY SIZE	X	Y	Z
6" - 7"	2" X 2"	1 1/2"	1"	1 1/2"
8" - 13"	2" X 4"	2 1/2"	3"	1 1/2"
14" - 20"	2" X 6"	5 1/2"	5"	1 1/2"
SEE DRAWINGS	2" X 8"	7 1/4"	6 3/4"	1 1/2"
	2" X 10"	9 1/4"	8 3/4"	1 1/2"
	4" X 4"	3 1/2"	3"	3 1/2"
	4" X 6"	5 1/2"	5"	3 1/2"
	4" X 8"	7 1/4"	6 3/4"	3 1/2"
SEE DRAWINGS	4" X 10"	9 1/4"	8 3/4"	3 1/2"
	4" X 12"	11 1/4"	10 3/4"	3 1/2"

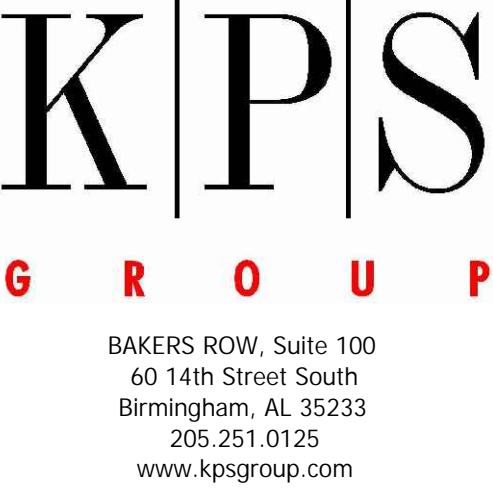
SLUMP TABLE	
TYPE OF CONSTRUCTION	SLUMP (INCHES)
	MAX. MIN.
REINFORCED FOOTINGS AND SLABS	3 4
REINFORCED WALLS AND PAVEMENTS	4 1
BACKFILL CONCRETE	6 3

CONCRETE AIR CONTENT TABLE	
NOMINAL MAXIMUM SIZE (COARSE AGGREGATE) (INCHES)	TOTAL AIR CONTENT PERCENT BY VOLUME
3/4"	4 TO 8
1"	35 TO 45
1 1/2"	3 TO 6



BAR BEND TABLE AND EMBEDMENT TABLE									
BAR SIZE (IN)	#3	#4	#5	#6	#7	#8	#9	#10	#11
DIAMETER	0.375"	0.5"	0.625"	0.75"	0.875"	1"	1.125"	1.375"	1.5"
W	2.5"	3"	3.5"	4"	4.5"	5"	5.5"	6.5"	7.5"
L	3"	3.5"	4"	4.5"	5"	5.5"	6"	7"	8"
W	15"	16"	18"	20"	22"	24"	26"	30"	32"
L	12"	12"	14"	16"	20"	22"	24"	28"	32"

NO SCALE



This drawing is an Instrument of Service for the Project and is the sole and exclusive property of the Architect. Any use without the knowledge and written consent of the Architect is prohibited.

The Architect shall not have control or charge of, and shall not be responsible for construction Means and Methods, deviations, techniques, sequences, or procedures, or for safety programs and precautions in connection with the Work, for the acts or omissions of the Contractor, Subcontractors or any other persons performing any of the Work in accordance with the Contract Documents.



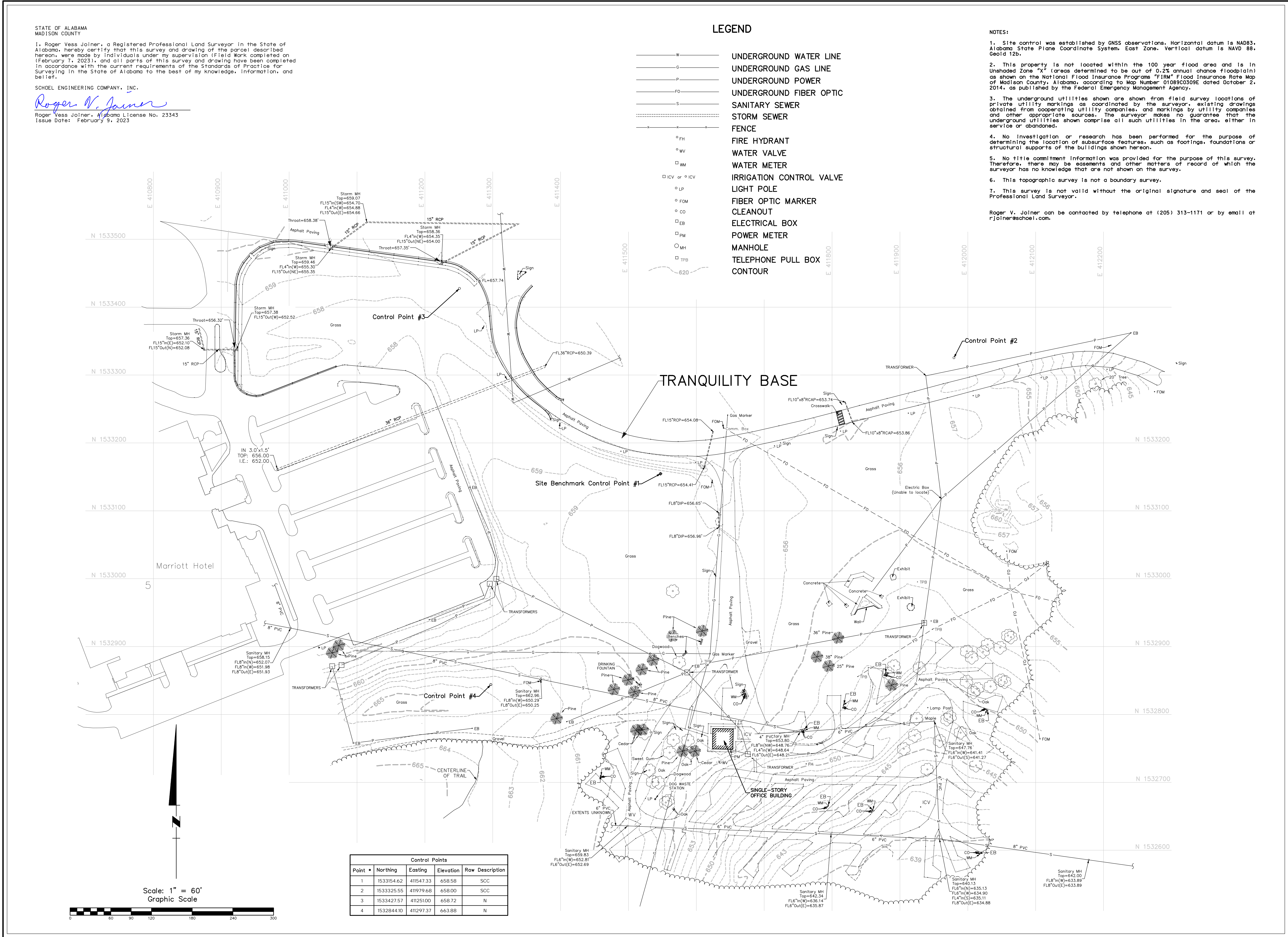
USSRC - INSPIRATION 4 TRAINING FACILITY

OWNER
UNITED STATES SPACE AND ROCKET CENTER

PROJECT ADDRESS
1 Tranquility Base
Huntsville, AL 35805



PROJECT STATUS: ISSUED	BID SET FOR CONSTRUCTION
ISSUE DATE:	FEBRUARY 05, 2024
REVISIONS	Date
No.	Description
DRAWING TITLE	PROJECT NOTES
DRAWN BY:	C.SIMS
CHECKED BY:	J.CARGILE
PROJECT NUMBER	225029-00
DRAWING NO.	C-1.0



SCHOEL

BIRMINGHAM HUNTSVILLE TUSCALOOSA

101 22nd Street South
Birmingham, Alabama 35205
205.323.6766

131 Washington Street SE
Huntsville, Alabama 35801
205.251.0125

3800 W. Highway Road, Ste. 102
Tuscaloosa, Alabama 35604
205.323.6766

SCHOEL.COM

**USSRC SKILLS TRAINING
PREPARED FOR KPS GROUP, INC.**

SITUATED IN THE NE 1/4 OF SECTION 8, TOWNSHIP 4 SOUTH, RANGE 1 WEST
MADISON COUNTY, ALABAMA

TOPOGRAPHIC SURVEY

DATE: FEBRUARY 2023
DRAWN BY: JMM
CHECKED BY: RVJ
FIELD BOOK: 1081HO
FIELD CREW: LBS
FILE NAME: (23015)_TOPO.DWG

TP1

Copyright © 2023 Schoel Engineering Company, Inc.

NOTE: CONTRACTOR TO REMOVE AND/OR RELOCATE ALL EXISTING UTILITIES WITHIN THE LIMITS OF DISTURBANCE AS REQUIRED FOR CONSTRUCTION FOR THE PROPOSED IMPROVEMENTS.



NOTE: ALL UTILITY LOCATIONS HAVE BEEN PROVIDED BY THE RESPECTIVE UTILITY DEPARTMENTS OR COMPANIES. CONTRACTORS ARE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES. CALL UTILITY COMPANY OR CITY DEPARTMENTS FOR GROUND LOCATIONS BEFORE DIGGING.



BIRMINGHAM	HUNTSVILLE	TUSCALOOSA
1001 22nd Street South Birmingham, Alabama 35205 205.323.6166	101 Washington Street SE Huntsville, Alabama 35801 256.539.1221	3600 Watermelon Road, Ste 202 Northport, Alabama 35473 205.323.6166
SCHOEL.COM		

K | P | S
G R O U P


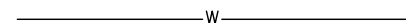

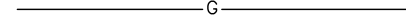


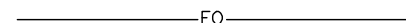

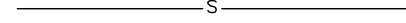











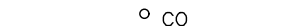
BAKERS ROW, Suite 100
60 14th Street South
Birmingham, AL 35233
205.251.0125
www.kpsgroup.com

This drawing is an Instrument of Service for this Project and is the sole and exclusive property of the Architect. Any use without the knowledge and written consent of the Architect is prohibited.

The Architect shall not have control or charge of, and shall not be responsible for construction Means and Methods, deviations, techniques, sequences, or procedures, or for safety programs and precautions in connection with the Work, for the acts or omissions of the Contractor, Subcontractors or any other persons performing any of the Work in accordance with the Contract Documents.



LEGEND

	LIMITS OF DISTURBANCE
	UNDERGROUND WATER LINE
	UNDERGROUND GAS LINE
	UNDERGROUND POWER
	UNDERGROUND FIBER OPTIC
	SANITARY SEWER
	STORM SEWER
	FENCE
	TREE LINE
	FIRE HYDRANT
	WATER VALVE
	WATER METER
	IRRIGATION CONTROL VALVE
	LIGHT POLE
	FIBER OPTIC MARKER
	CLEANOUT
	ELECTRICAL BOX
	POWER METER
	MANHOLE
	TELEPHONE PULL BOX
	CONTOUR

USSRC - INSPIRATION 4 TRAINING FACILITY

OWNER
UNITED STATES SPACE AND ROCKET CENTER

PROJECT ADDRESS
1 Tranquility Base
Huntsville, AL 35805



PROJECT STATUS:	BID SET
ISSUED:	FOR CONSTRUCTION

ISSUE DATE: FEBRUARY 05, 2024

REVISIONS

No.	Description	Date
-----	-------------	------

1. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

1. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

1. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

1. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

1. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

1. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

1. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

1. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

DRAWING TITLE

EXISTING

CONDITIONS &

DEMOLITION

PLAN

1. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

DRAWN BY: C SIMS

CHECKED BY: J.CARGILE

[illegible]225029-00

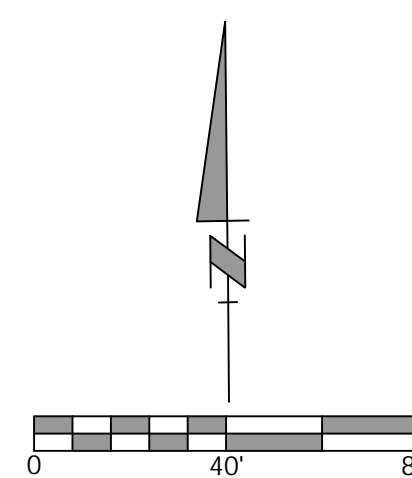
1. *Journal of the American Medical Association*, 2000; 284: 1039-1044.

[illegible]C-3.0

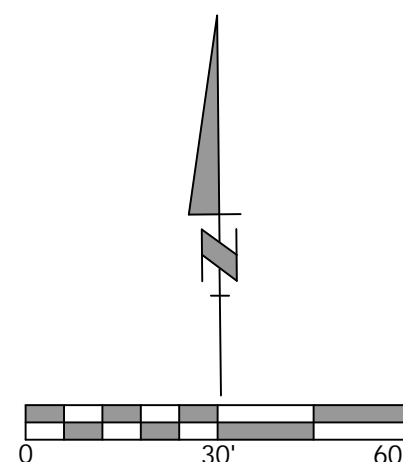
Copyright © 2023 School Engineering Company, Inc.

Control Points				
Point #	Northing	Easting	Elevation	Raw Description
1	1533154.62	411547.33	658.58	SCC
2	1533325.55	411979.68	658.00	SCC
3	1533427.57	411251.00	658.72	N
4	1532844.10	411297.37	663.88	N

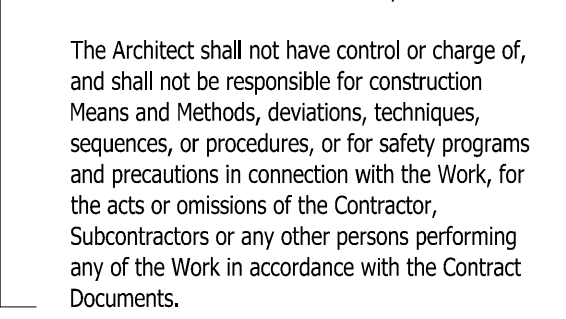
1. SCHOEL CONTROL CAP - 5/8" REBAR WITH ORANGE CONTROL CAP
2. SCHOEL CONTROL CAP - 5/8" REBAR WITH ORANGE CONTROL CAP
3. 6" LONG MAGNETIC NAIL
4. 6" LONG MAGNETIC NAIL



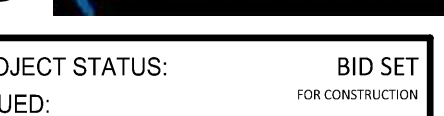
Copyright © 2003 School Engineering Company, Inc.



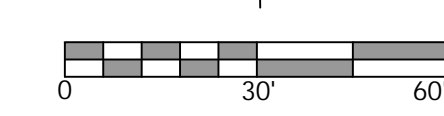
3. COORDINATES FOR BUILDING CORNERS ARE PROVIDED FOR GENERAL LOCATION ONLY. CONFIRM ACTUAL LOCATION. BASED ON ARCHITECTURAL & STRUCTURAL DRAWINGS



PROJECT ADDRESS
1 Tranquility Base
Huntsville, AL 35805



Copyright © 2023 School Engineering Company, Inc.



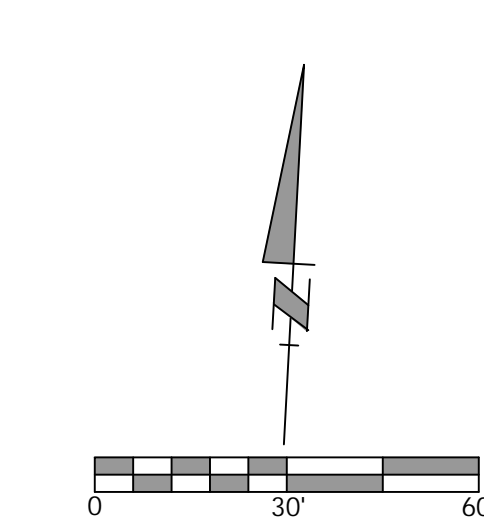
ALABAMA
LICENSED
2-5-24
No. 19827
PROFESSIONAL
ENGINEER
W. M. CARGILL

OWNER
UNITED STATES SPACE AND ROCKET CENTER

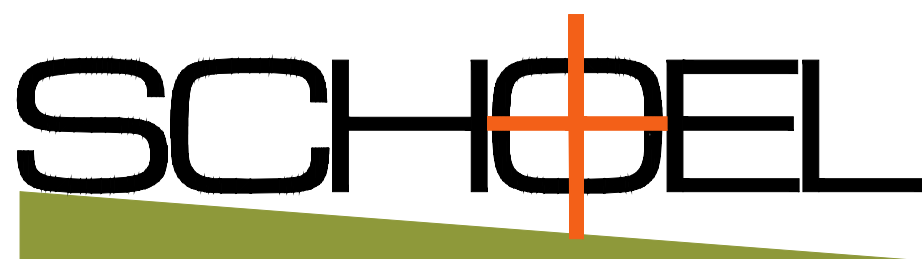
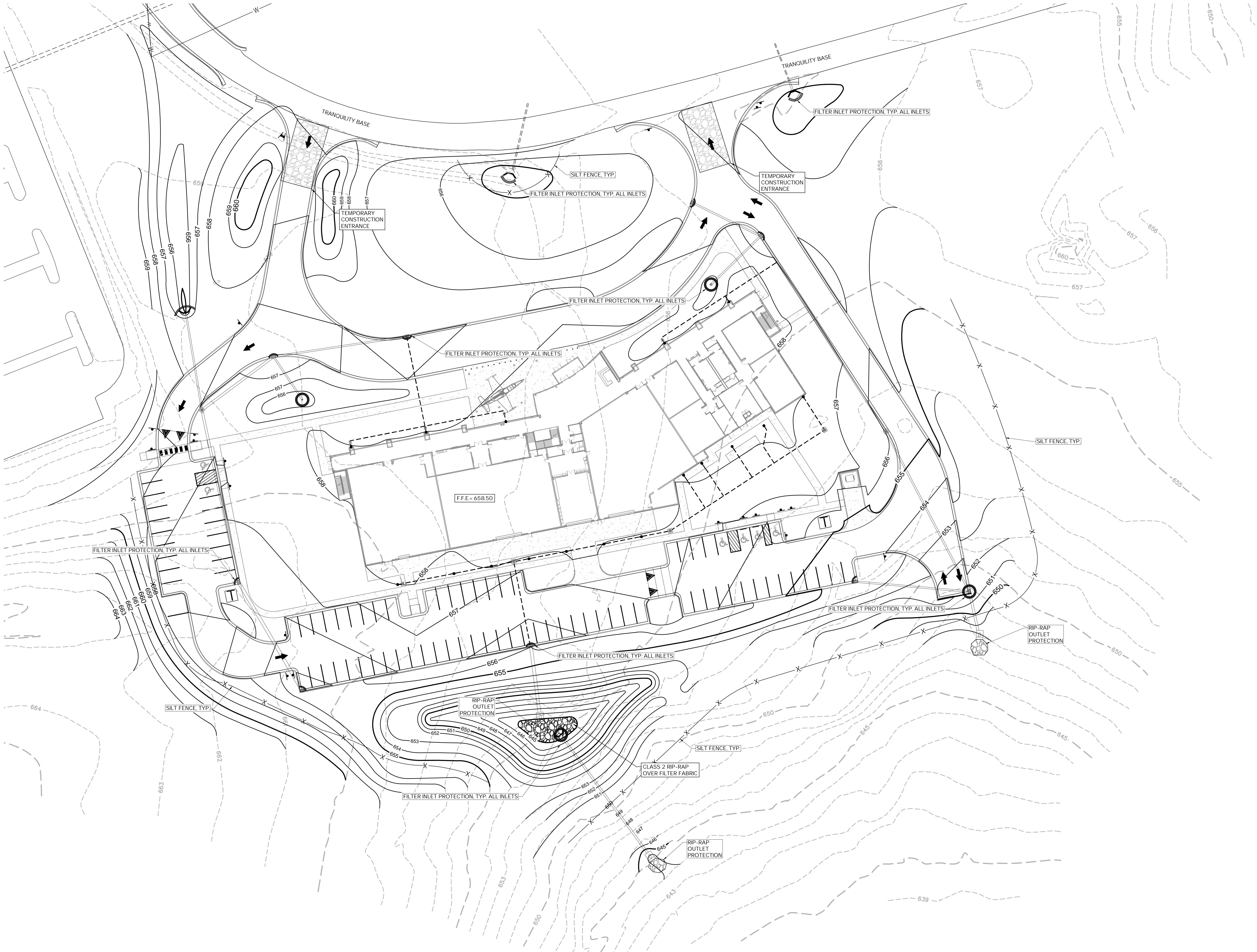
PROJECT ADDRESS
1 Tranquility Base
Huntsville, AL 35805



Copyright © 2023 School Engineering Company, Inc.



H:\Projects\23\23015 Hp USSRC Training Facility Survey\Civil\Construction Sheets



BIRMINGHAM 1801 22nd Street South
Birmingham, Alabama 35205
205.325.6166

HUNTSVILLE 181 Washington Street SE
Huntsville, Alabama 35801
256.559.1021

TUSCALOOSA 3800 Westmoreland Road, Ste. 102
Huntsville, Alabama 35897
256.325.6166

SCHOEEL.COM



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

This drawing is an Instrument of Service for the Project and is the sole and exclusive property of the Architect. Any use without the knowledge and written consent of the Architect is prohibited.

The Architect shall not have control or charge of, and shall not be responsible for construction Means and Methods, deviations, techniques, sequences, or procedures, or for safety programs and precautions in connection with the Work, for the acts or omissions of the Contractor, Subcontractors or any other persons performing any of the Work in accordance with the Contract Documents.



USSRC - INSPIRATION 4 TRAINING FACILITY

OWNER
UNITED STATES SPACE AND ROCKET CENTER

PROJECT ADDRESS
1 Tranquility Base
Huntsville, AL 35805



PROJECT STATUS:
ISSUED: BID SET FOR CONSTRUCTION

ISSUE DATE: FEBRUARY 05, 2024

REVISIONS

No.	Description	Date
-----	-------------	------

DRAWING TITLE

EROSION
CONTROL PLAN

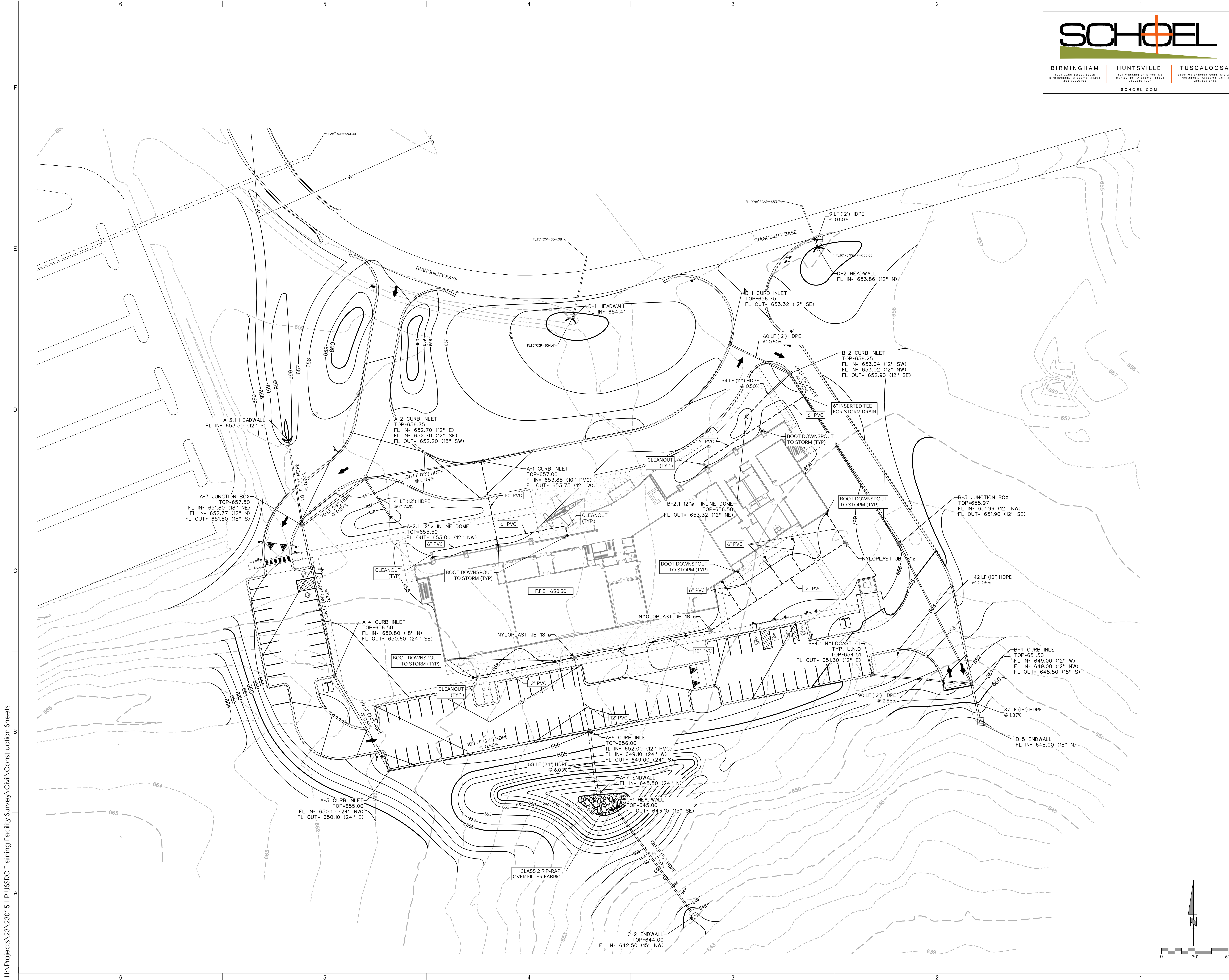
DRAWN BY: C.SIMS
CHECKED BY: J.CARGILE

PROJECT NUMBER
225029-00

DRAWING NO.
C-7.0

Copyright © 2023 Schoel Engineering Company, Inc.

H:\Projects\23\2015 HP USSRC Training Facility Survey\Civil Construction Sheets



SCHOEEL

BIRMINGHAM

181 22nd Street South
Birmingham, Alabama 35205
205.325.6166

HUNTSVILLE

181 Washington Street SE
Huntsville, Alabama 35801
205.251.0125

TUSCALOOSA

3800 Weddington Road, Ste. 102
Huntsville, Alabama 35892
256.325.6166

SCHOEEL.COM

K|P|S

GROUP

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

This drawing is an Instrument of Service for the Project and is the sole and exclusive property of the Architect. Any use without the knowledge and written consent of the Architect is prohibited.

The Architect shall not have control or charge of, and shall not be responsible for construction Means and Methods, deviations, techniques, sequences, or procedures, or for safety programs and precautions in connection with the Work, for the acts or omissions of the Contractor, Subcontractors or any other persons performing any of the Work in accordance with the Contract Documents.



USSRC - INSPIRATION 4 TRAINING FACILITY

OWNER
UNITED STATES SPACE AND ROCKET CENTER

PROJECT ADDRESS
1 Tranquility Base
Huntsville, AL 35805

PROJECT STATUS:
ISSUED:

BID SET
FOR CONSTRUCTION

ISSUE DATE:

FEBRUARY 05, 2024

REVISIONS	No.	Description	Date
-----------	-----	-------------	------

DRAWING TITLE

DRAINAGE
PLAN

DRAWN BY:

C.SIMS

CHECKED BY:

J.CARGILE

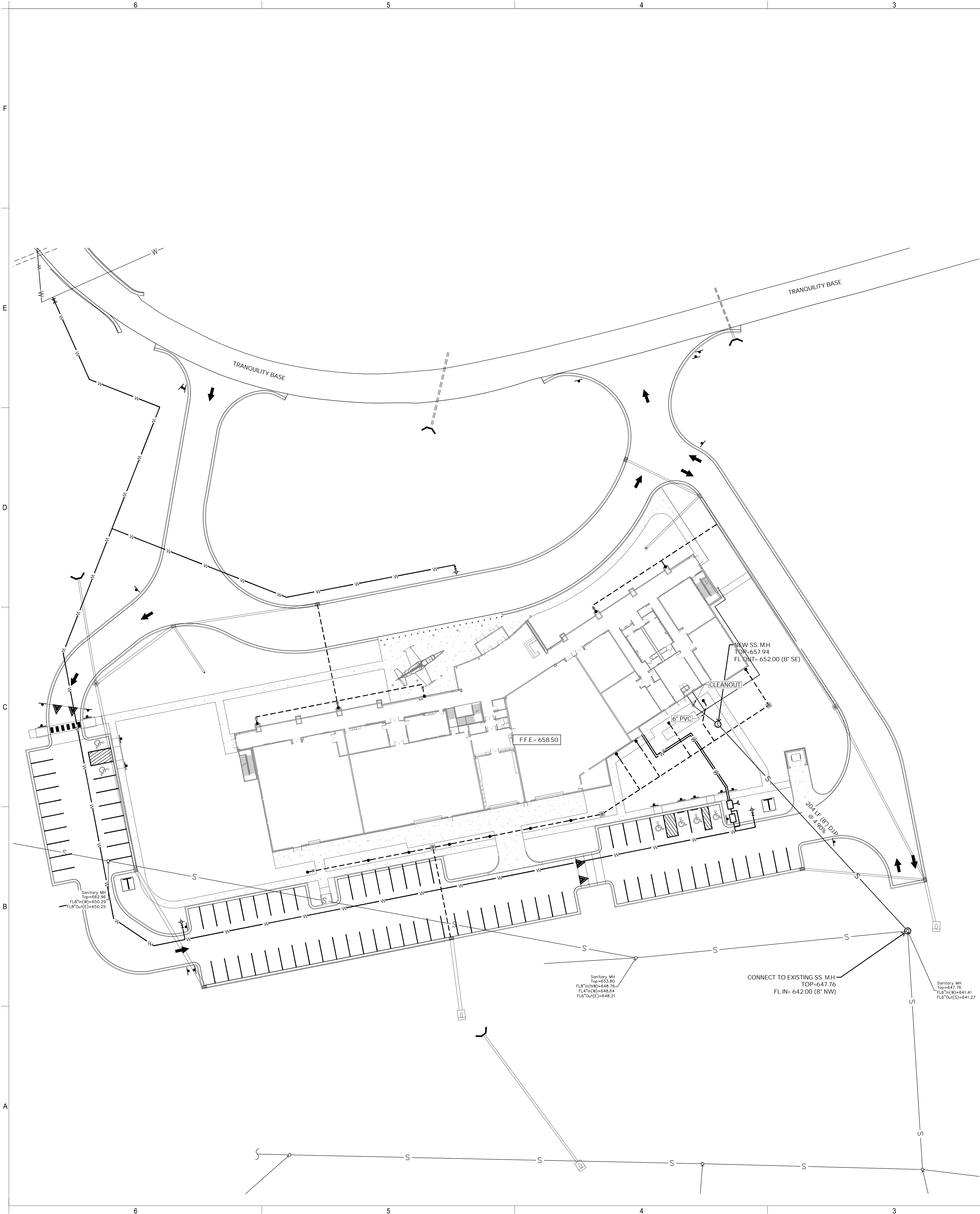
PROJECT NUMBER

225029-00

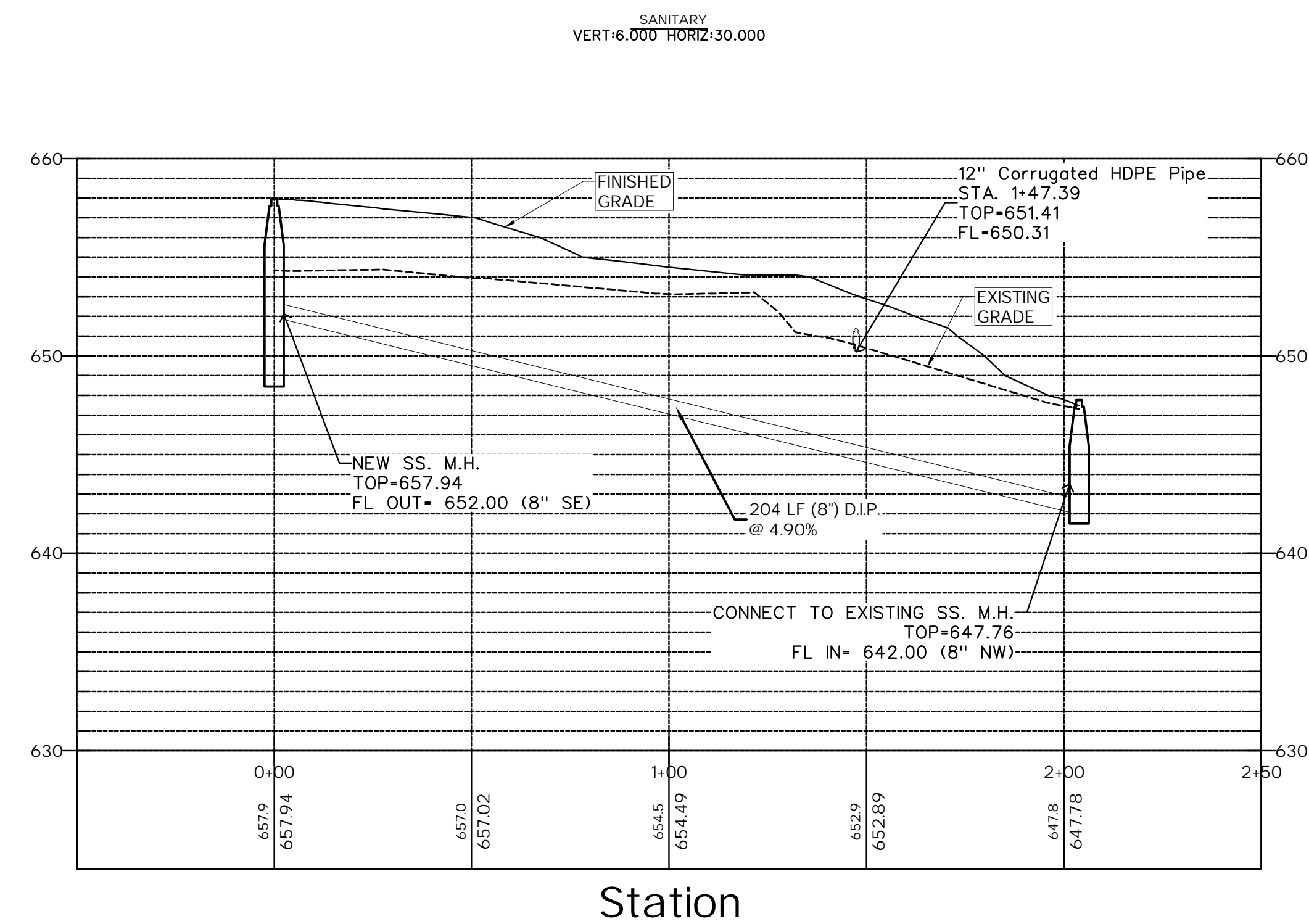
DRAWING NO.

C-8.0

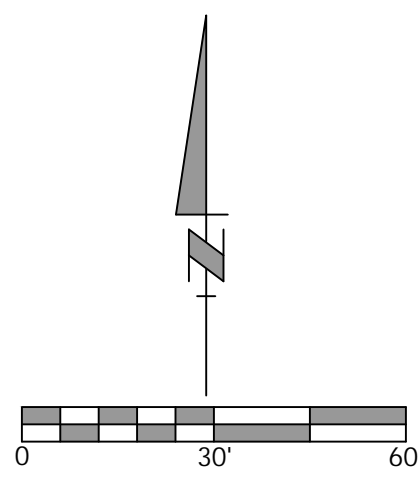
H:\Projects\23\23015 HP USSRC Training Facility Survey\Civil\Construction Sheets



Elevation



Elevation



SCHOEL
BIRMINGHAM
181 22nd Street South
Birmingham, Alabama 35205
205.325.6166

SCHOEL
HUNTSVILLE
181 Washington Street SE
Huntsville, Alabama 35801
256.559.1021

SCHOEL
TUSCALOOSA
3800 Wedgmont Road, Ste. 102
Montgomery, Alabama 36117
256.325.6166

SCHOEL.COM

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

This drawing is an Instrument of Service for the Project and is the sole and exclusive property of the Architect. Any use without the knowledge and written consent of the Architect is prohibited.

The Architect shall not have control or charge of, and shall not be responsible for construction Means and Methods, deviations, techniques, sequences, or procedures, or for safety programs and precautions in connection with the Work, for the acts or omissions of the Contractor, Subcontractors or any other persons performing any of the Work in accordance with the Contract Documents.

USSRC - INSPIRATION 4 TRAINING FACILITY

OWNER
UNITED STATES SPACE AND ROCKET CENTER

PROJECT ADDRESS
1 Tranquility Base
Huntsville, AL 35805

PROJECT STATUS:
ISSUED

BID SET
FOR CONSTRUCTION

ISSUE DATE: FEBRUARY 05, 2024

REVISIONS
No. Description Date

DRAWING TITLE
SANITARY PLAN

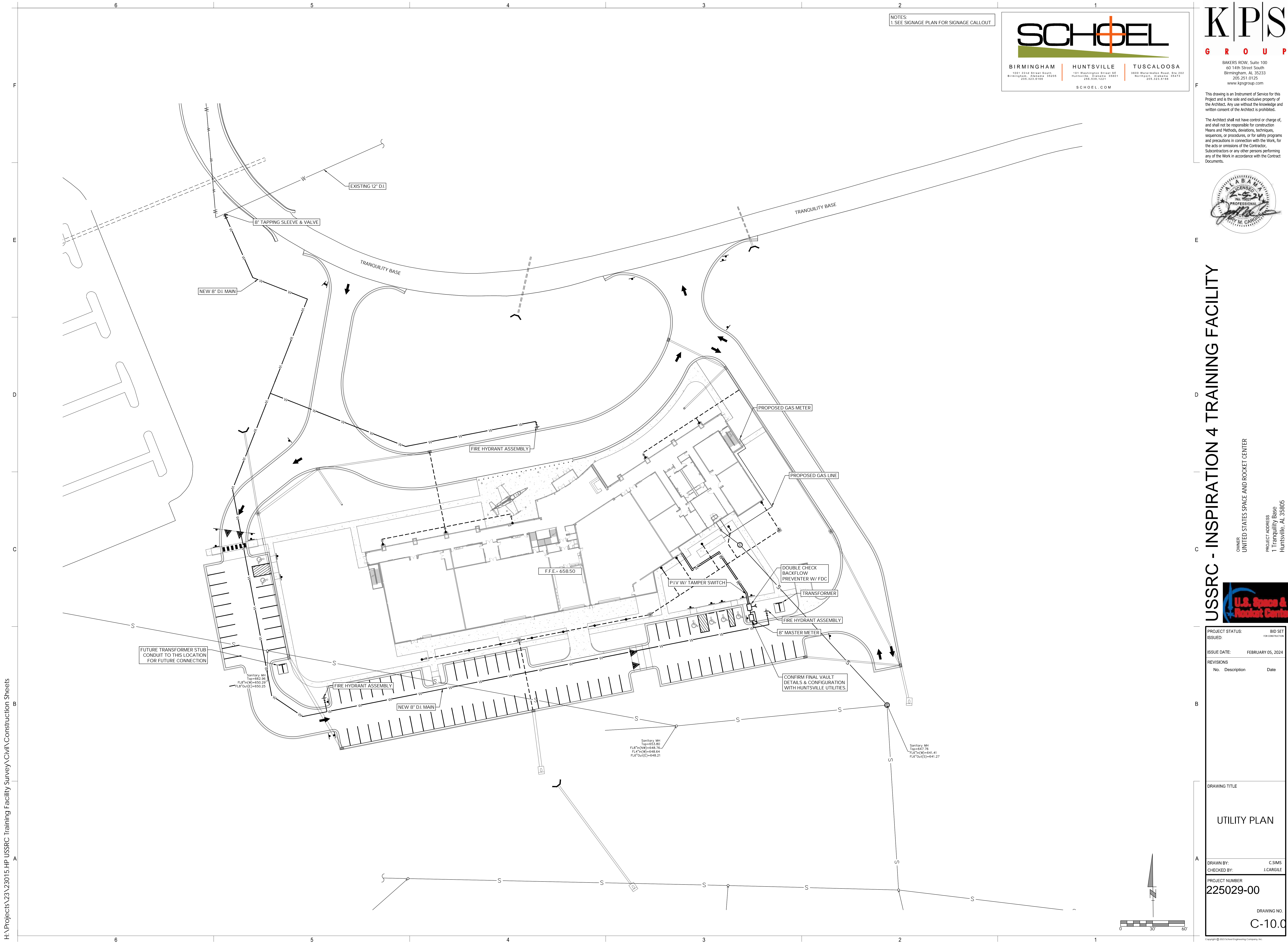
DRAWN BY: C.SIMS
CHECKED BY: J.CARGILE

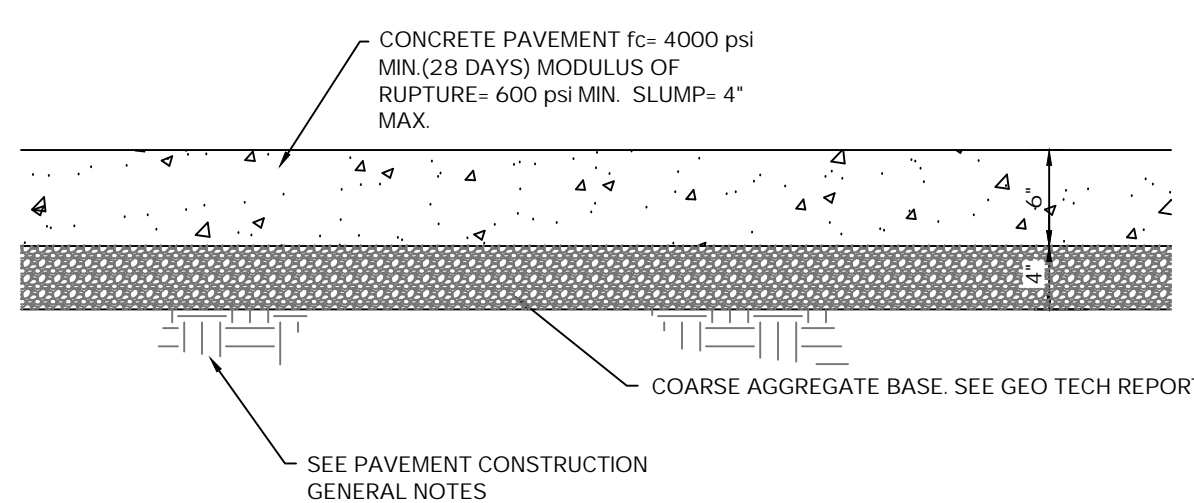
PROJECT NUMBER
225029-00

DRAWING NO.
C-9.0

Copyright © 2023 Schoel Engineering Company, Inc.

H:\Projects\23\23015 HP USSRC Training Facility Survey\Civil\Construction Sheets

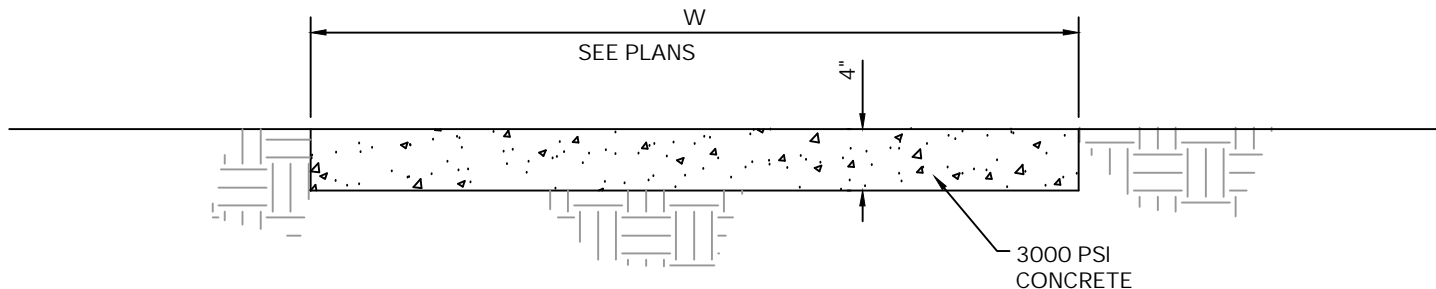




STANDARD CONCRETE PAVEMENT (DRIVEWAYS)

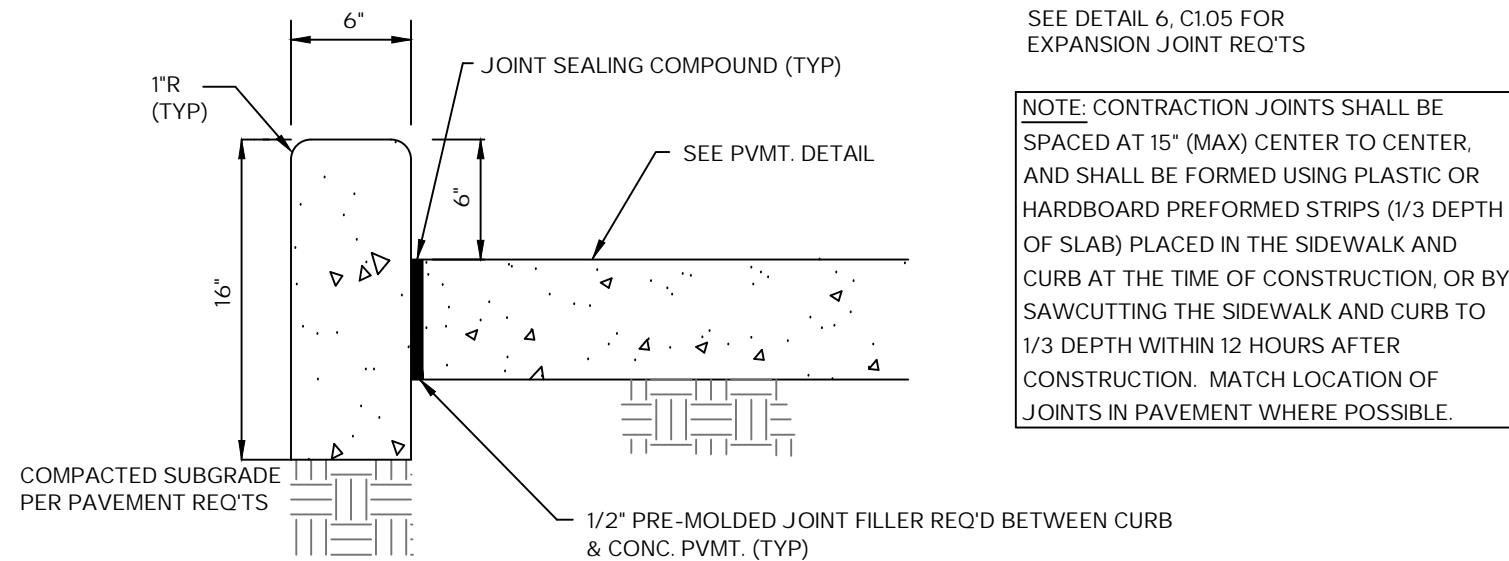
NOT TO SCALE

- UNLESS EXPLICITLY INDICATED OTHERWISE:
1. CROSS SLOPE ON SIDEWALKS SHALL NOT EXCEED 2%.
 2. HAND RAILING IS REQUIRED WHERE THE RUNNING SLOPE EXCEEDS 5% (SEE ARCHITECTURAL FOR DETAILS).
 3. LANDINGS ARE REQUIRED AT THE END OF SECTIONS EQUAL TO OR EXCEEDING 5%. THESE LANDINGS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
 4. RUNNING SLOPE SHALL NOT EXCEED 5% FOR ACCESSIBLE ROUTES.
- NOTE: CONTRACTION JOINTS SHALL BE SPACED AT "W" (MAX) CENTER TO CENTER, AND SHALL BE FORMED USING PLASTIC OR HARDBOARD PREFORMED STRIPS (1/3 DEPTH OF SLAB) PLACED IN THE SIDEWALK AND CURB AT THE TIME OF CONSTRUCTION, OR BY SAWCUTTING THE SIDEWALK AND CURB TO 1/3 DEPTH WITHIN 12 HOURS AFTER CONSTRUCTION. MATCH LOCATION OF JOINTS IN PAVEMENT WHERE POSSIBLE.



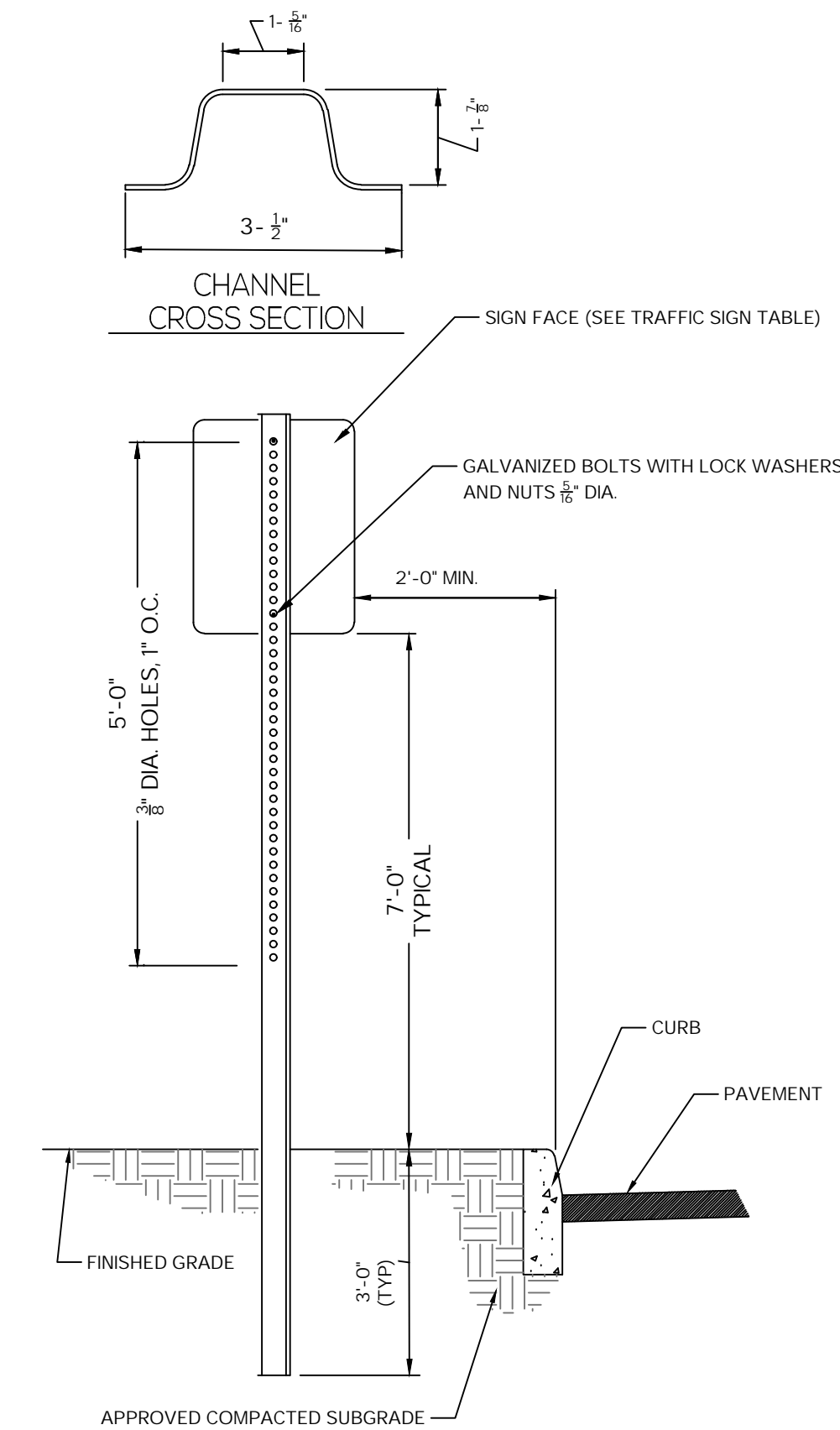
SIDEWALK DETAIL

NOT TO SCALE



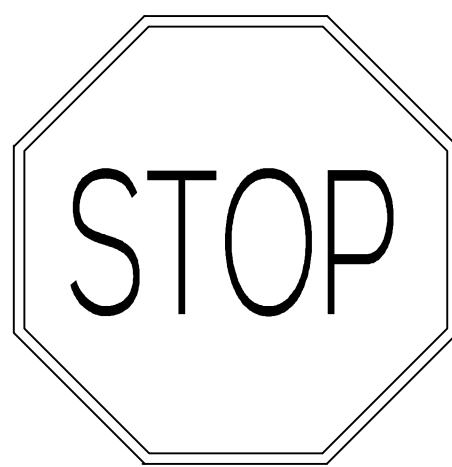
STAND-UP CURB END DETAIL (6 X 16)

NOT TO SCALE



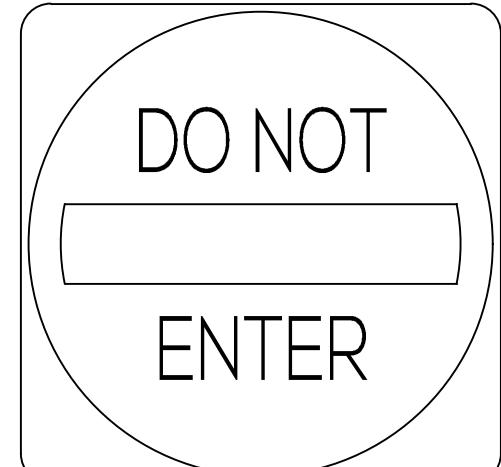
TRAFFIC SIGN POST

(STEEL CHANNEL)



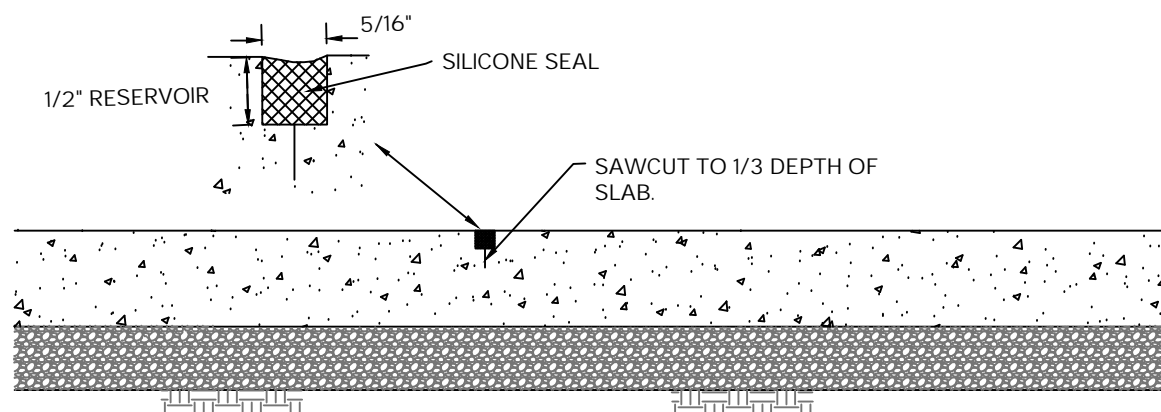
STOP SIGN DETAIL (R1-1)

NOT TO SCALE



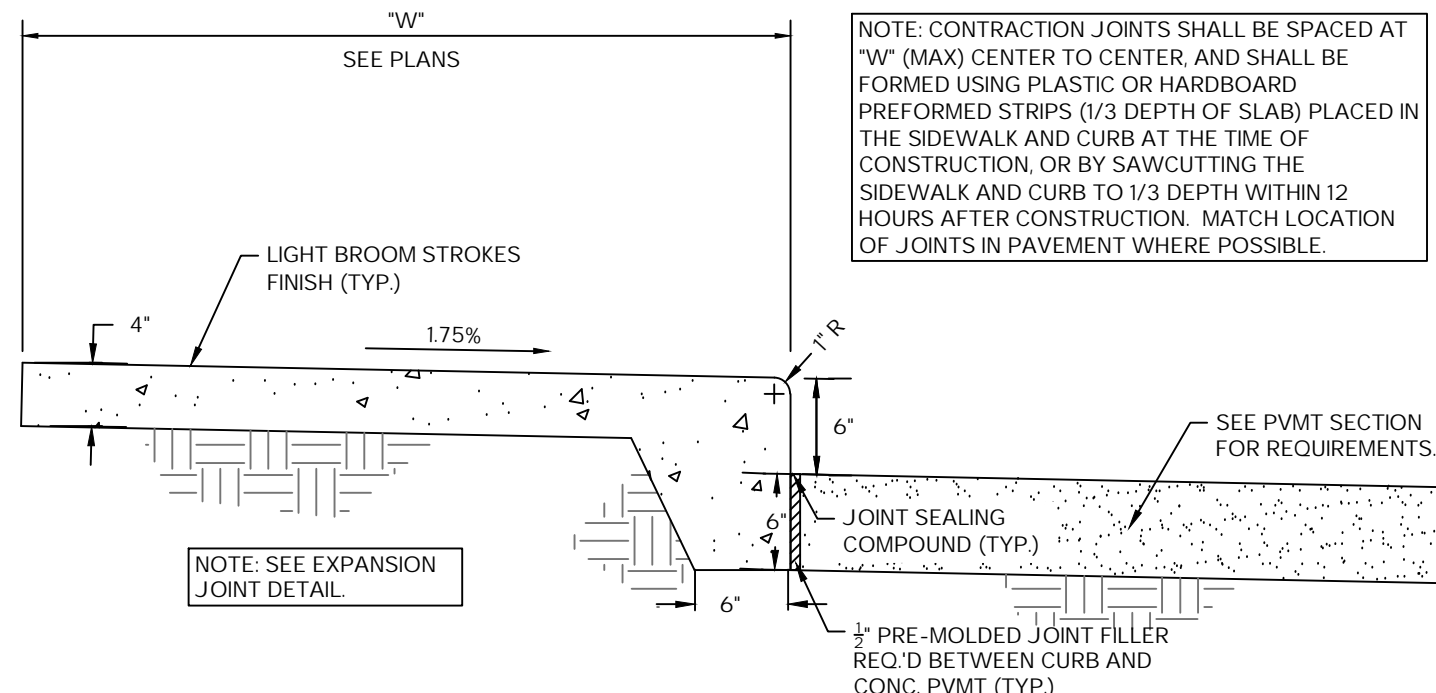
DO NOT ENTER SIGN DETAIL (R5-1)

NOT TO SCALE



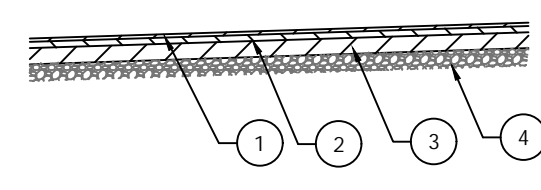
CONTRACTION JOINT DETAIL

NOT TO SCALE



CONCRETE SIDEWALK & TURN-DOWN CURB DETAIL

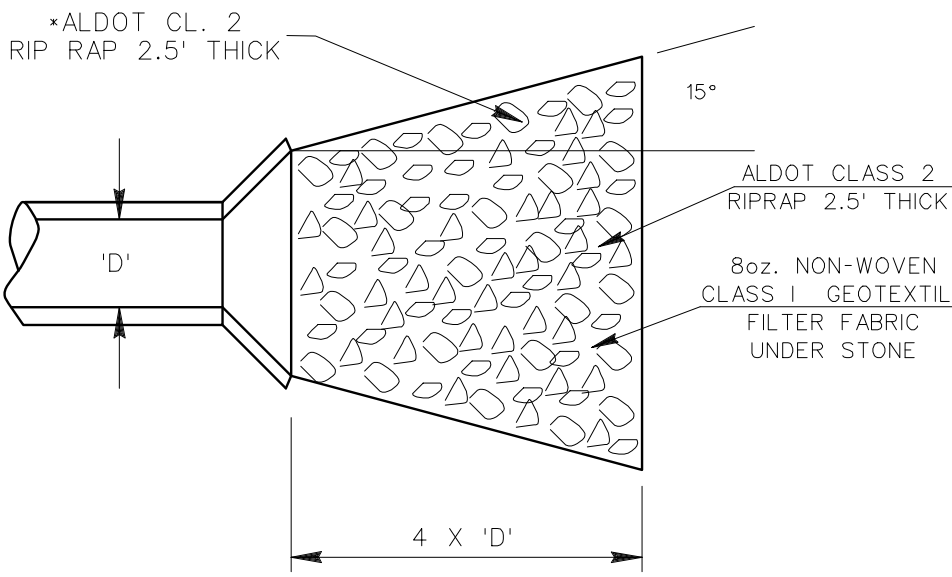
NOT TO SCALE



STANDARD PAVEMENT SECTION

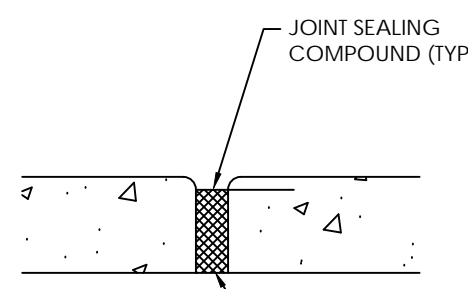
NOT TO SCALE

1. 168 LBS./S.Y. (1") HOT BITUMINOUS CONCRETE WEARING COURSE, ALDOT. REF. 424-A OF THE SPECIFICATIONS.
2. 168 LBS./S.Y. (2") HOT BITUMINOUS CONCRETE BINDER COURSE, ALDOT. REF. 424-B OF THE SPECIFICATIONS.
3. 0.10 GAL./S.Y. EMULSIFIED ASPHALT OR 0.07 GAL./S.Y. TACK COAT. ALL MATERIALS ARE TO BE IN ACCORDANCE WITH SECTION 405 OF THE ALDOT SPECIFICATIONS.
4. 5" LAYER OF DENSE GRADED LIMESTONE BASE COURSE ALDOT REF. 301 OF SPECIFICATIONS. ALL MATERIALS SHALL BE IN ACCORDANCE WITH SECTION 525, TYPE "B", COMPACTION TO 100% PROCTOR DENSITY.



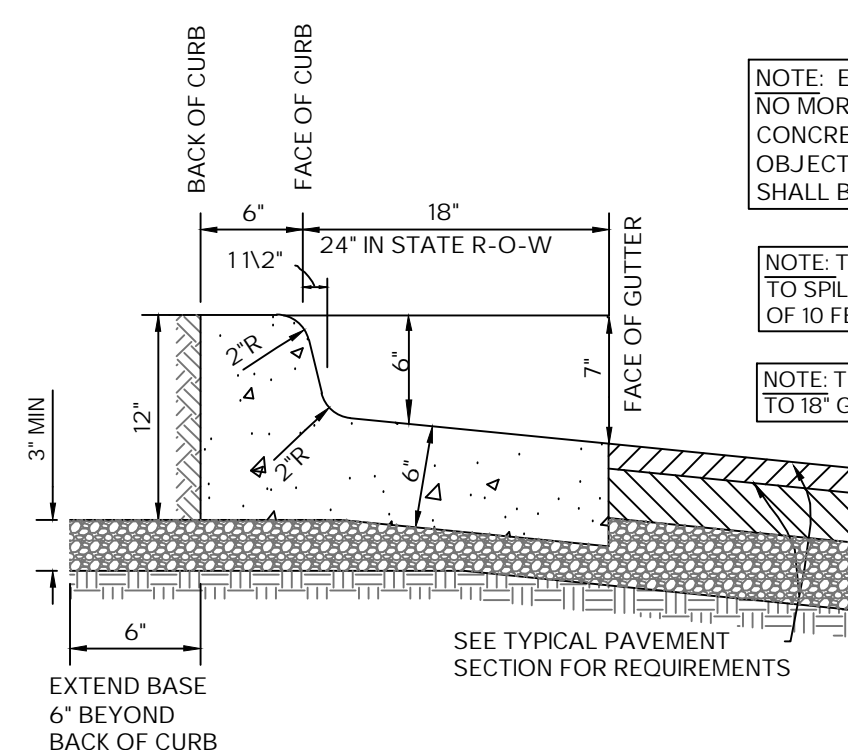
STORM OUTLET PROTECTION (TYPICAL)

N. T. S.



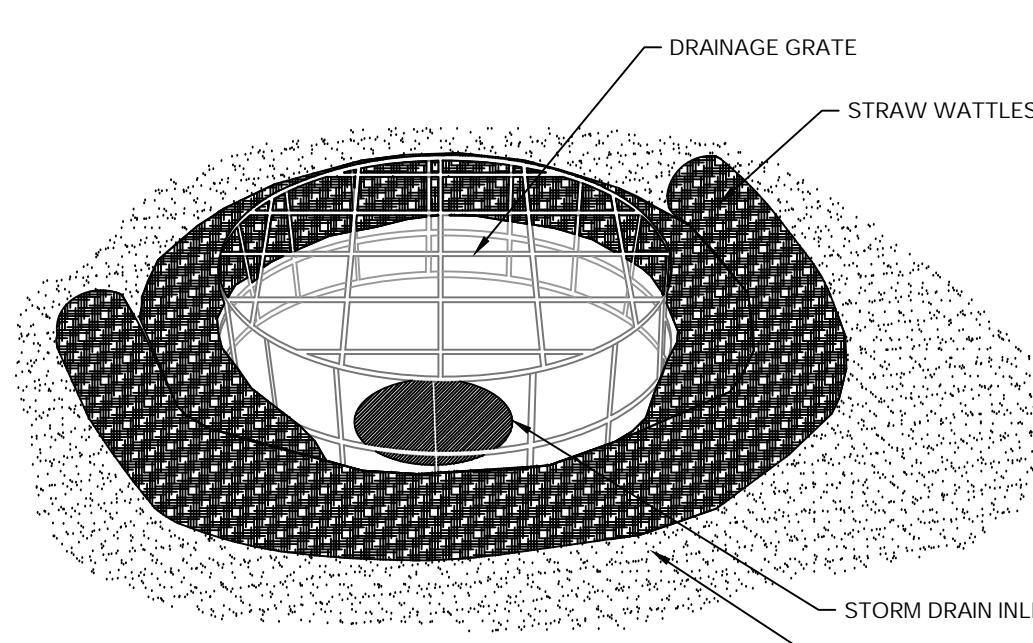
SIDEWALK & CURB EXPANSION JOINT DETAIL

NOT TO SCALE



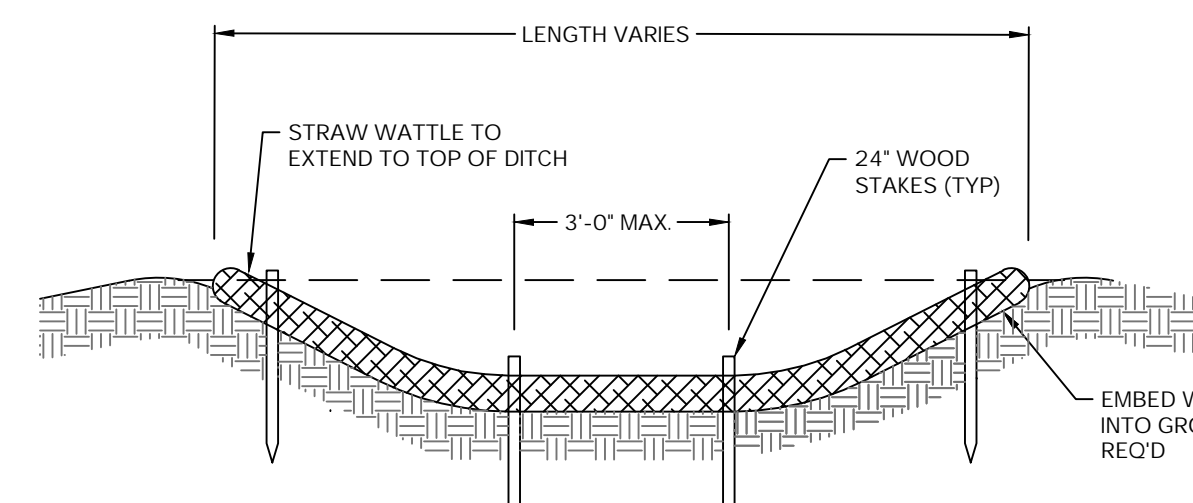
(ALTERNATE) SPILL CURB & GUTTER

NOT TO SCALE



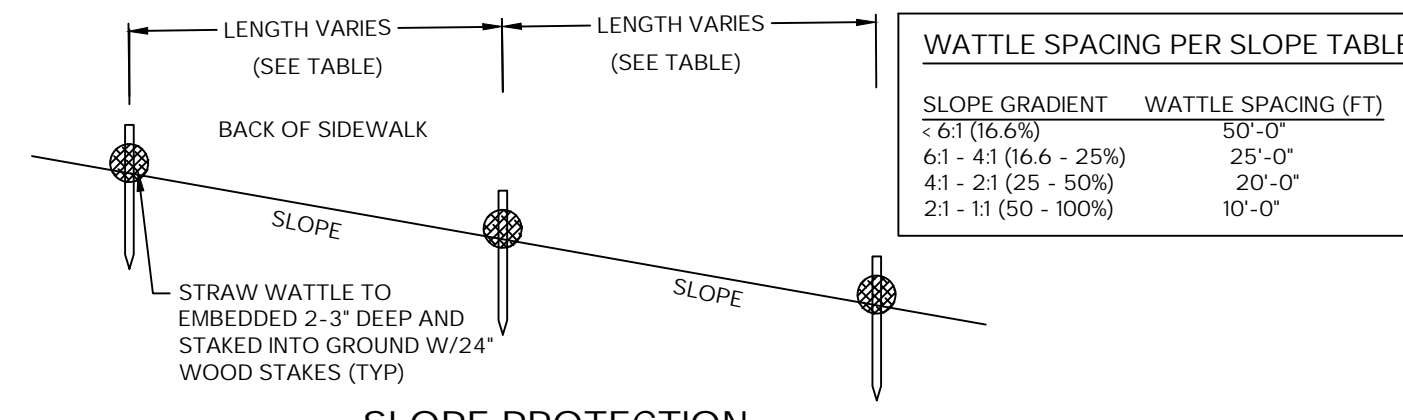
INLET PROTECTION

NOT TO SCALE



DITCH PROTECTION

NOT TO SCALE



SLOPE PROTECTION

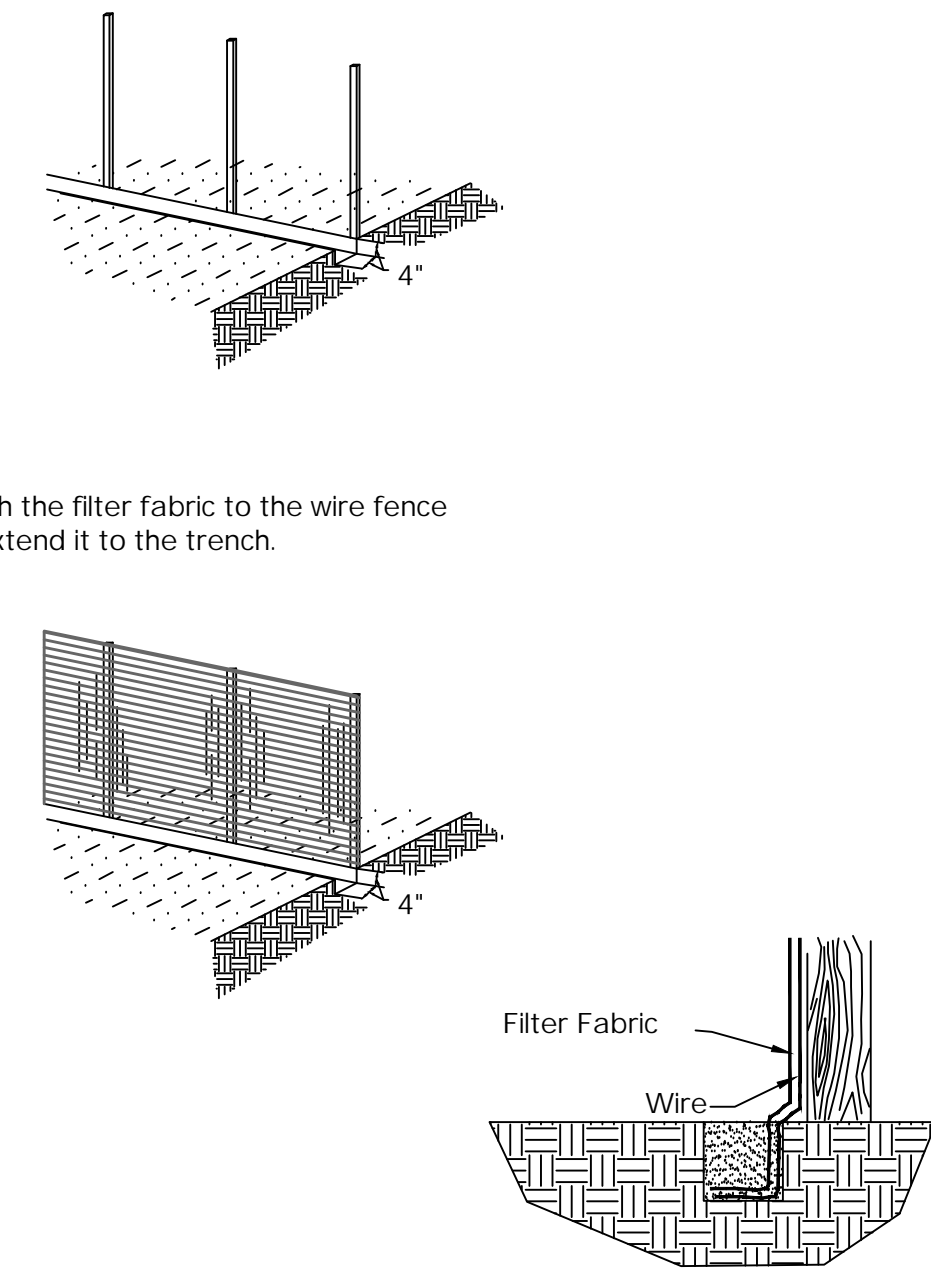
NOT TO SCALE

WATTLE SPACING PER SLOPE TABLE	
SLOPE GRADIENT	WATTLE SPACING (FT)
2-61 (0-25%)	50'-0"
6:1 - 4:1 (16.6 - 25%)	25'-0"
4:1 - 2:1 (25 - 50%)	20'-0"
2:1 - 1:1 (50 - 100%)	10'-0"

STRAW WATTLE INSTALLATION DETAILS

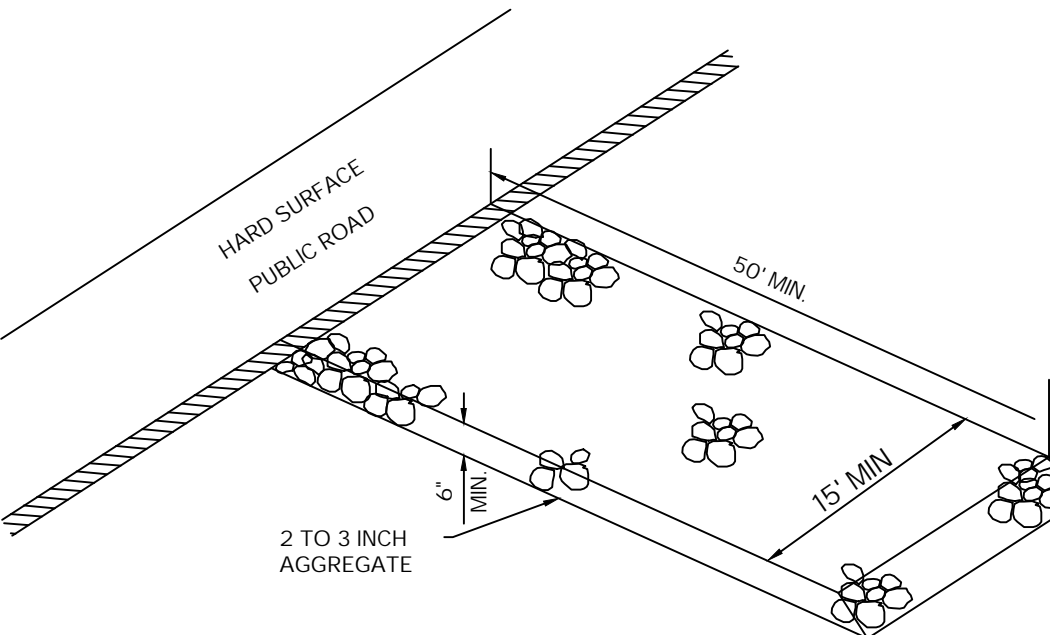
NOT TO SCALE

1. Set posts and excavate a 4" x 4" trench upslope along the line of posts.
2. Staple wire fencing to posts.
3. Attach the filter fabric to the wire fence and extend it to the trench.
3. Backfill and compact the excavated soil.



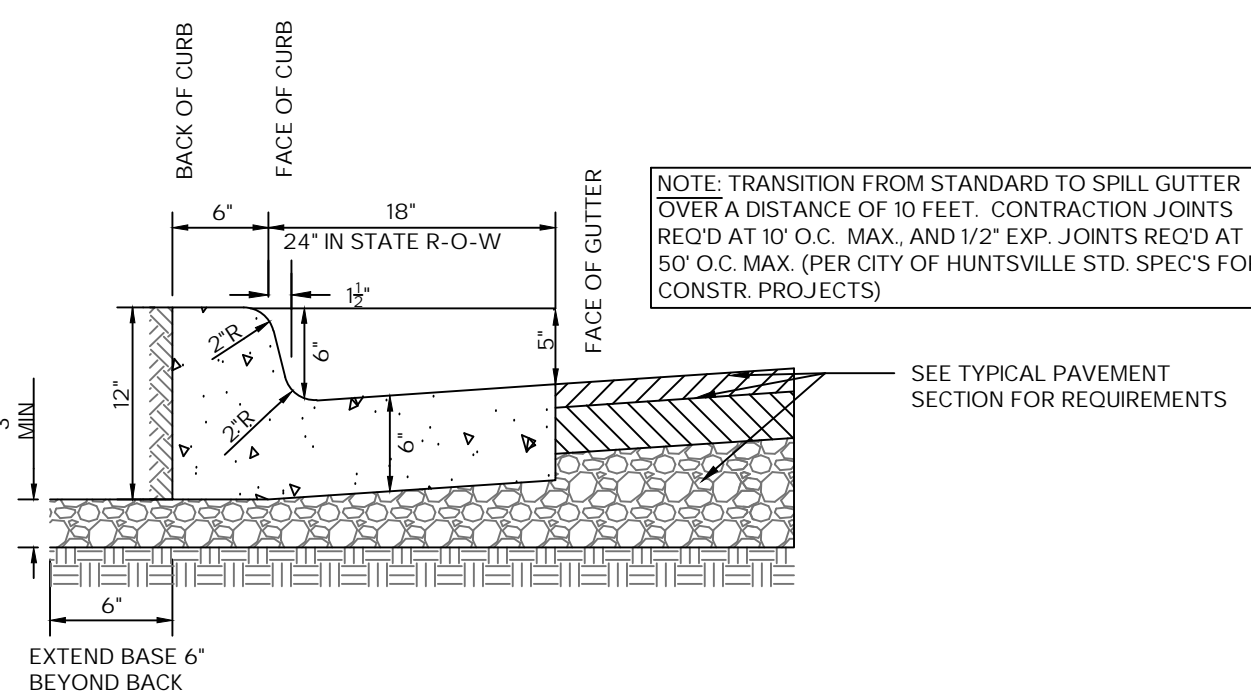
DETAILS FOR PLACING SILT FENCES

NOT TO SCALE



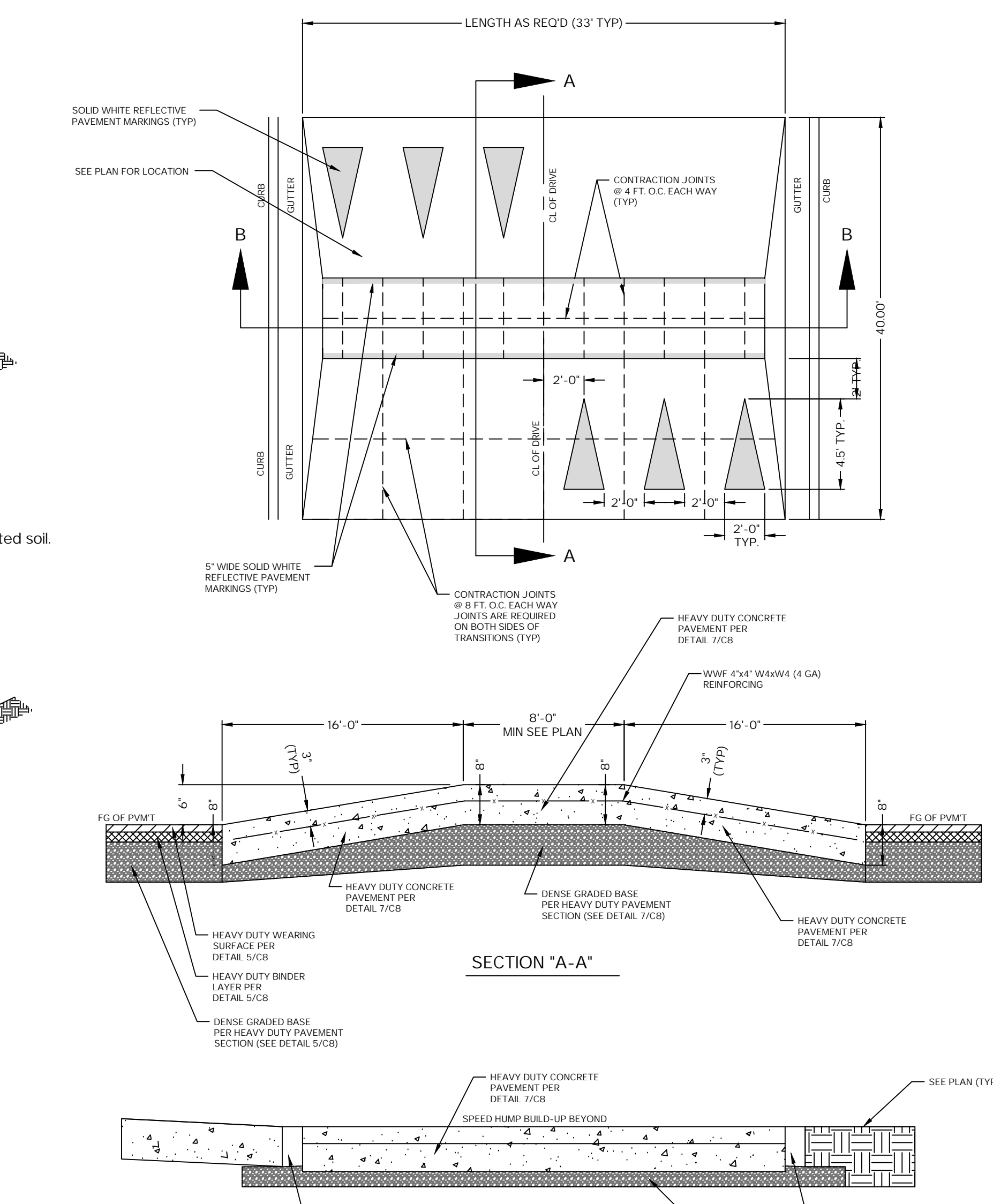
CONSTRUCTION ENTRANCE / EXIT

NOT TO SCALE



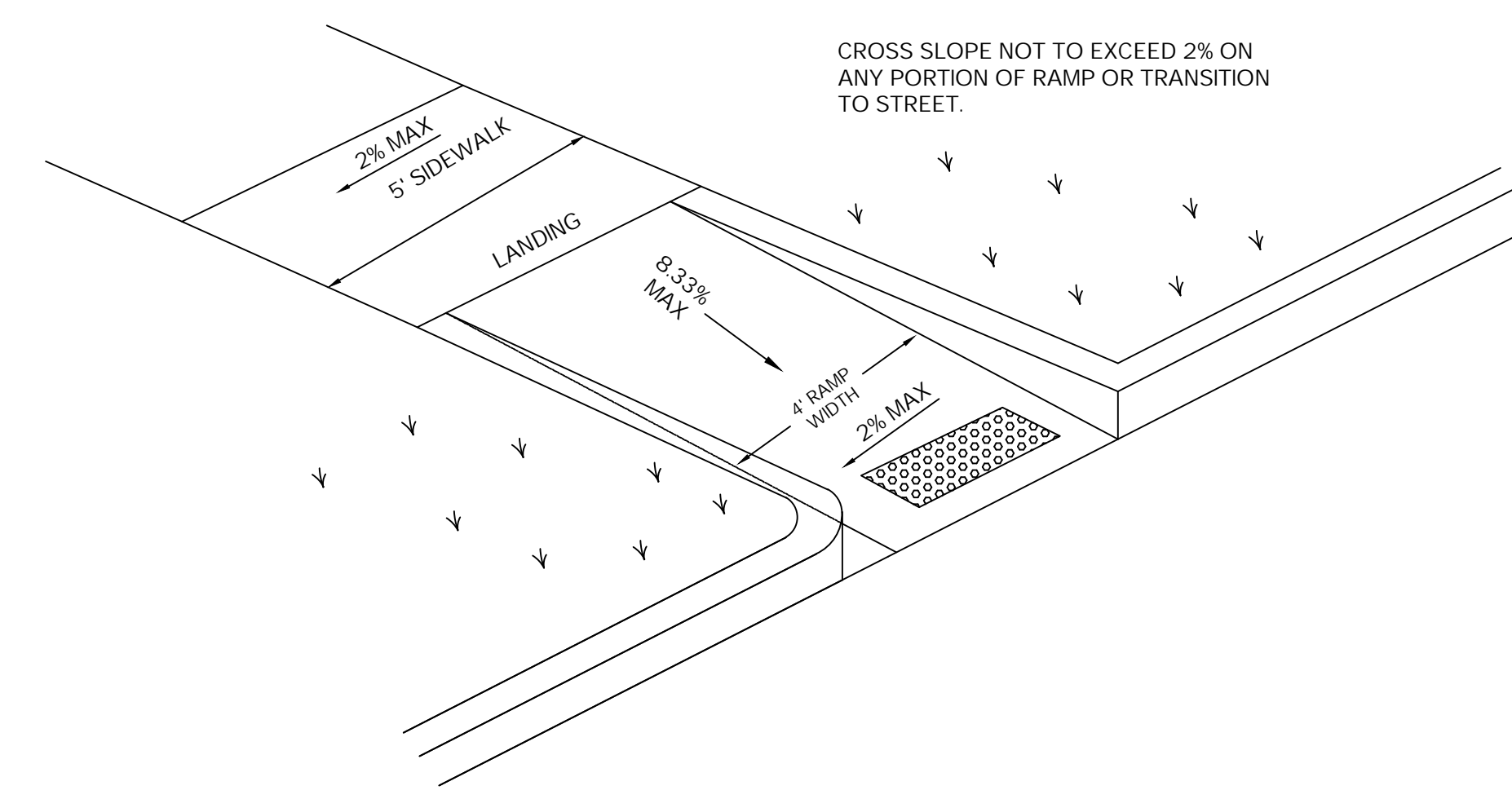
STANDARD CURB & GUTTER

NOT TO SCALE



SPEED TABLE

NOT TO SCALE



ADA DIRECTIONAL RAMP

NOT TO SCALE

SCHOEL

BIRMINGHAM
1801 23rd St. South
Birmingham, Alabama 35205
205.325.6166

HUNTSVILLE
181 Washington Street SE
Huntsville, Alabama 35801
256.539.1021

TUSCALOOSA
3800 Westheimer Road, Ste. 102
Huntsville, Alabama 35897
256.325.6166

SCHOEL.COM

K|P|S

G R O U P

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

This drawing is an Instrument of Service for the Project and is the sole and exclusive property of the Architect. Any use without the knowledge and written consent of the Architect is prohibited.

The Architect shall not have control or charge of, and shall not be responsible for construction Means and Methods, deviations, techniques, sequences, or procedures, or for safety programs and precautions in connection with the Work, for the acts or omissions of the Contractor, Subcontractors or any other persons performing any of the Work in accordance with the Contract Documents.



USSRC - INSPIRATION 4 TRAINING FACILITY

OWNER
UNITED STATES SPACE AND ROCKET CENTER

PROJECT ADDRESS
1 Tranquility Base
Huntsville, AL 35805

PROJECT STATUS:
ISSUED

BID SET
FOR CONSTRUCTION

ISSUE DATE:

FEBRUARY 05, 2024

Revisions	No.	Description	Date
-----------	-----	-------------	------

DRAWING TITLE

DETAILS

DRAWN BY:

C.SIMS

CHECKED BY:

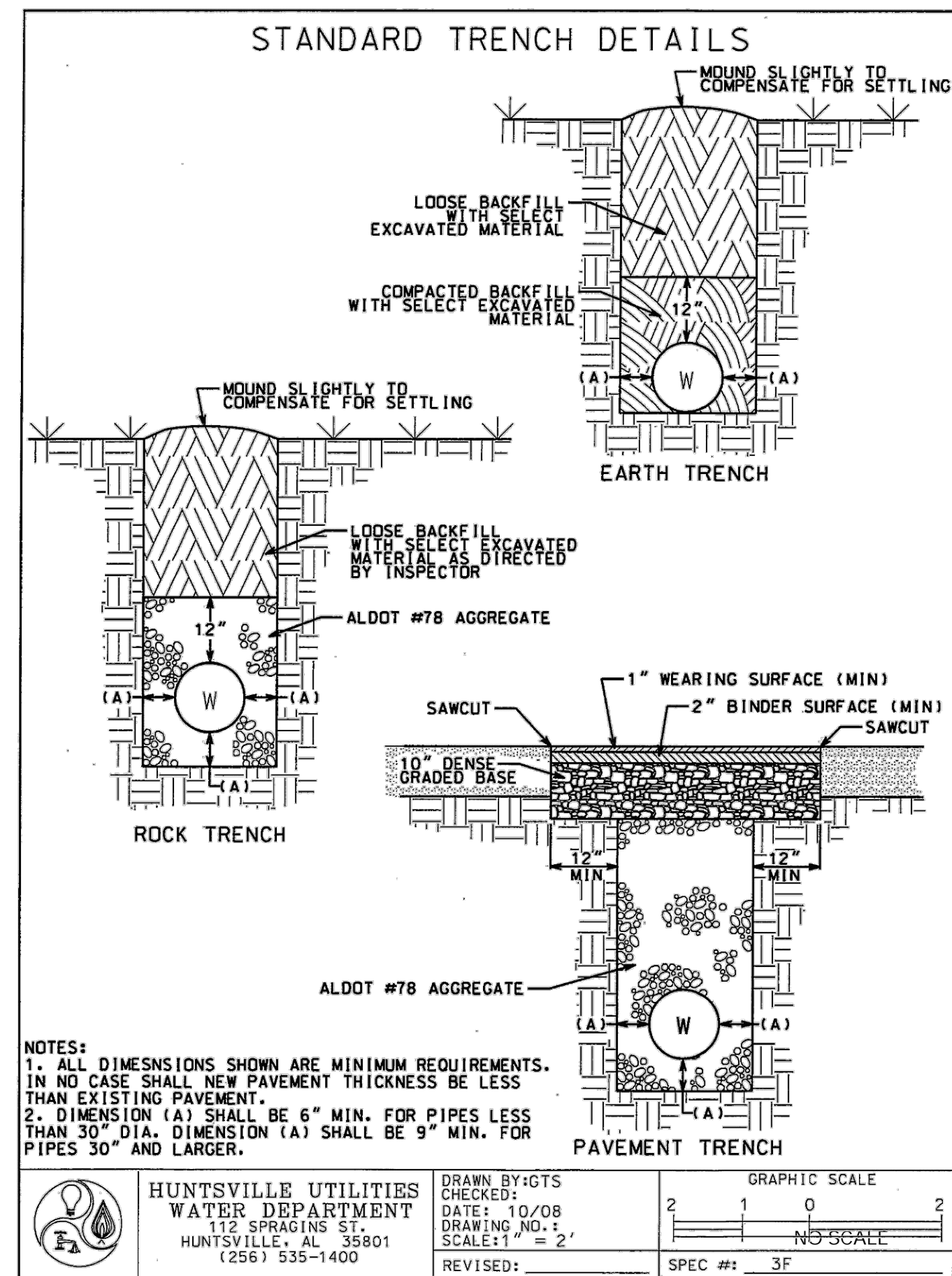
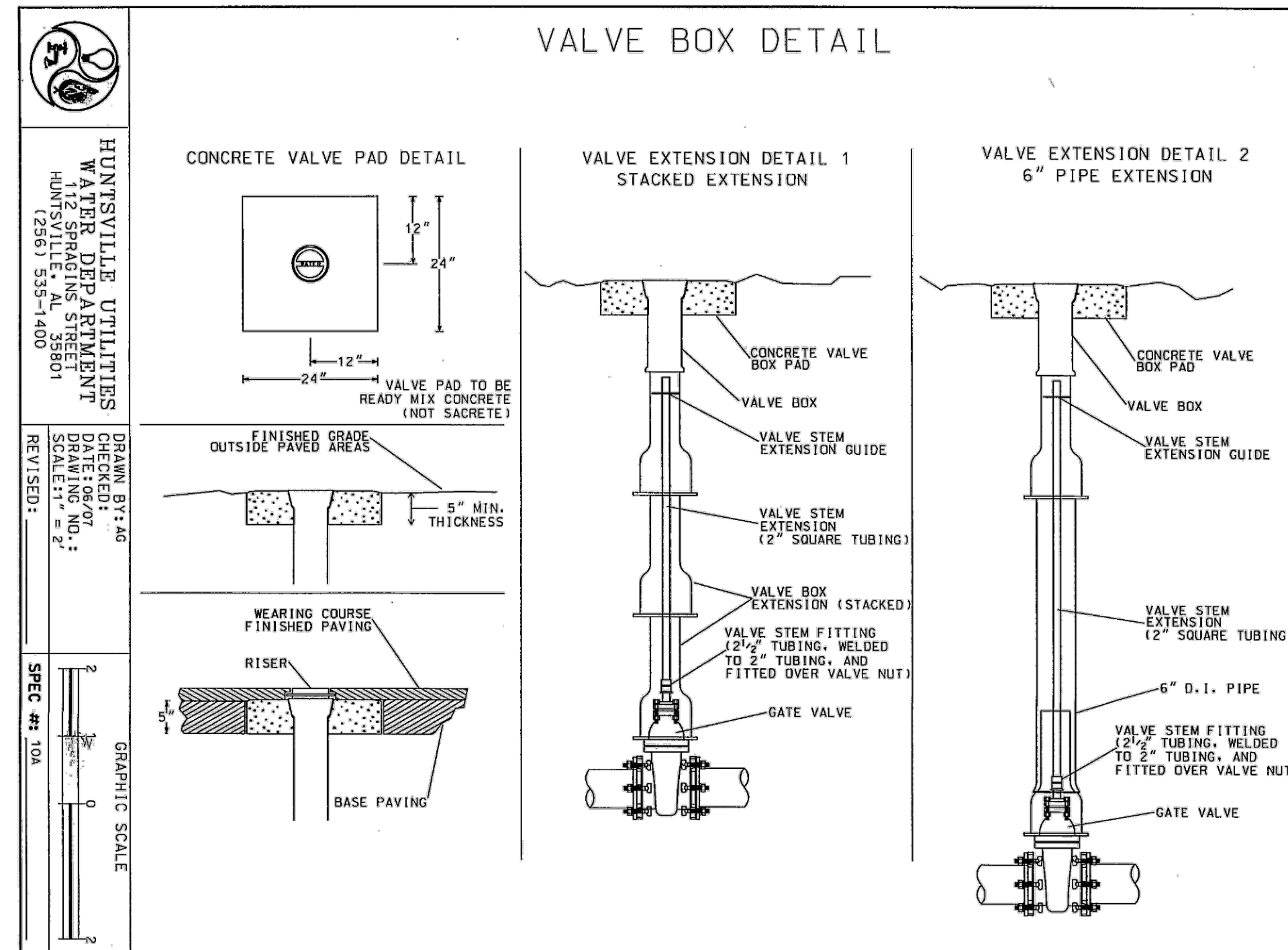
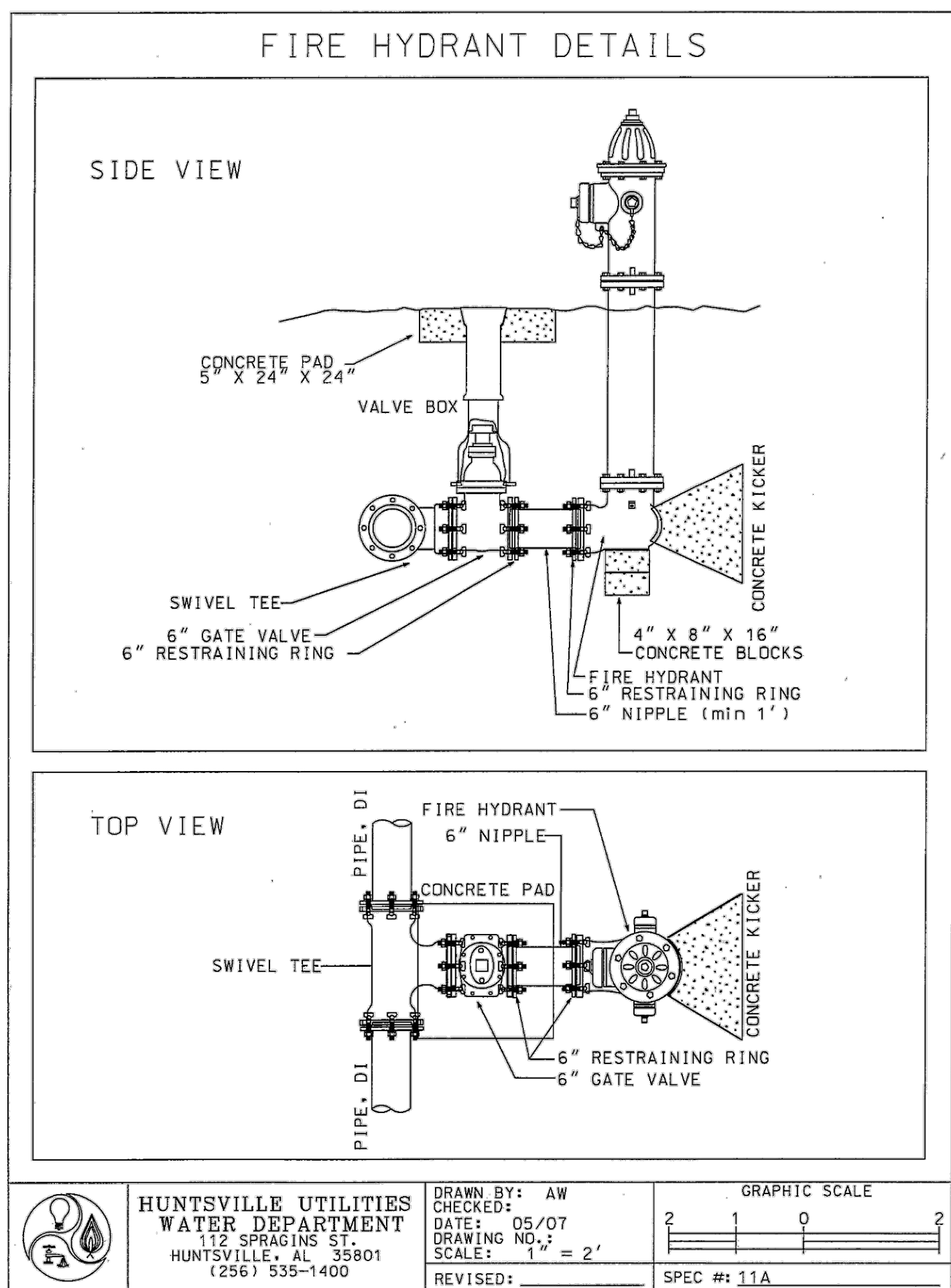
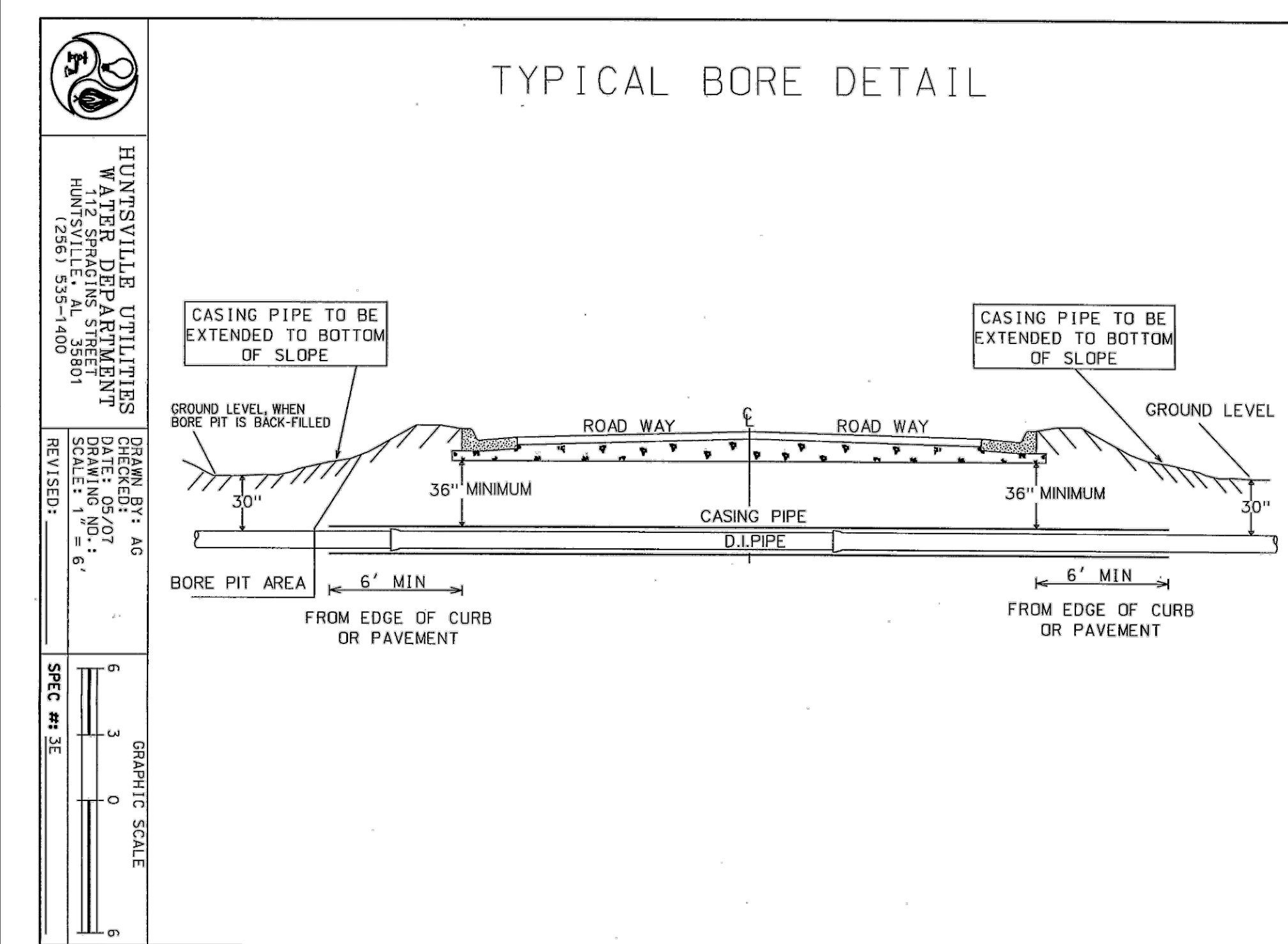
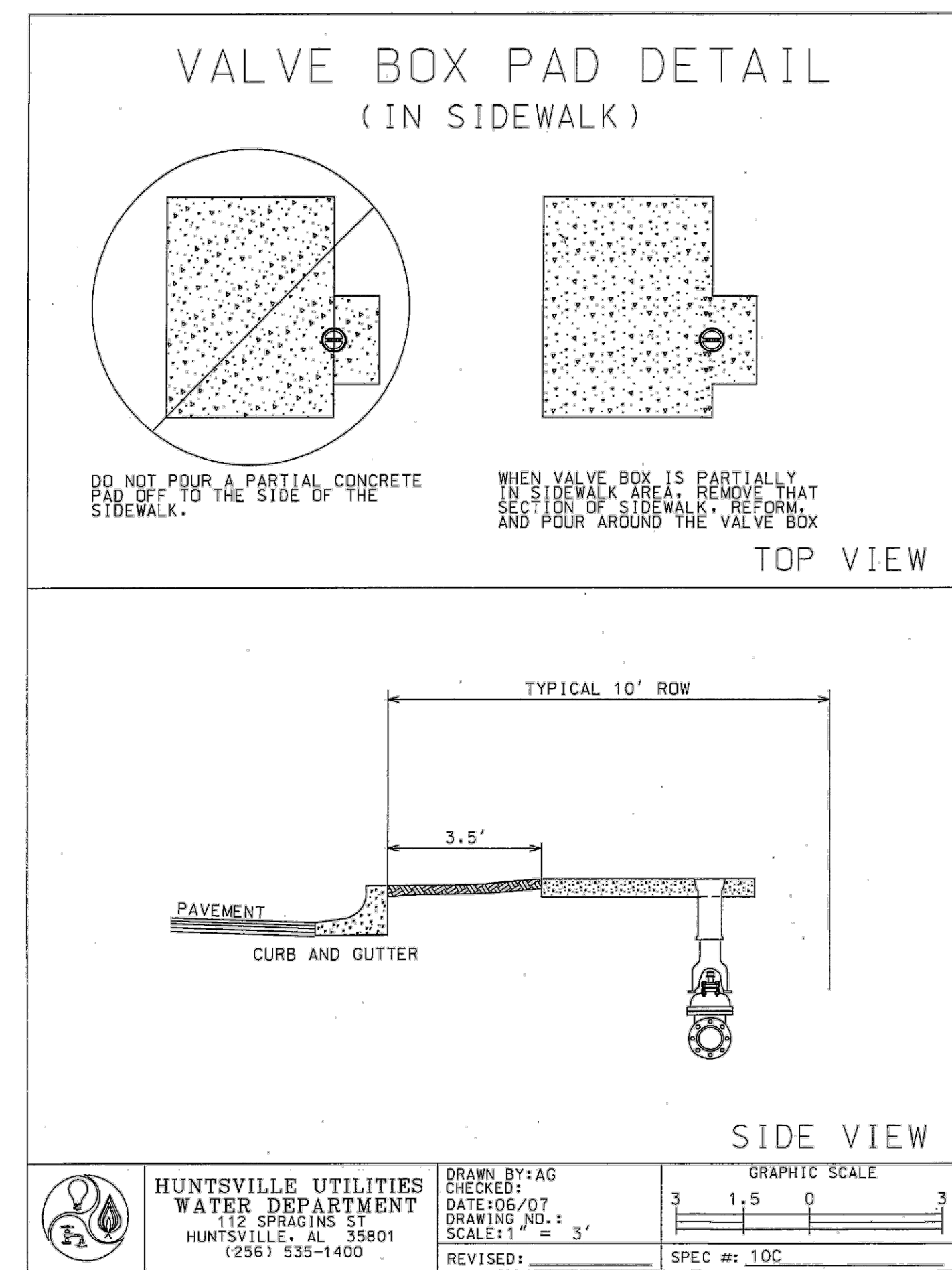
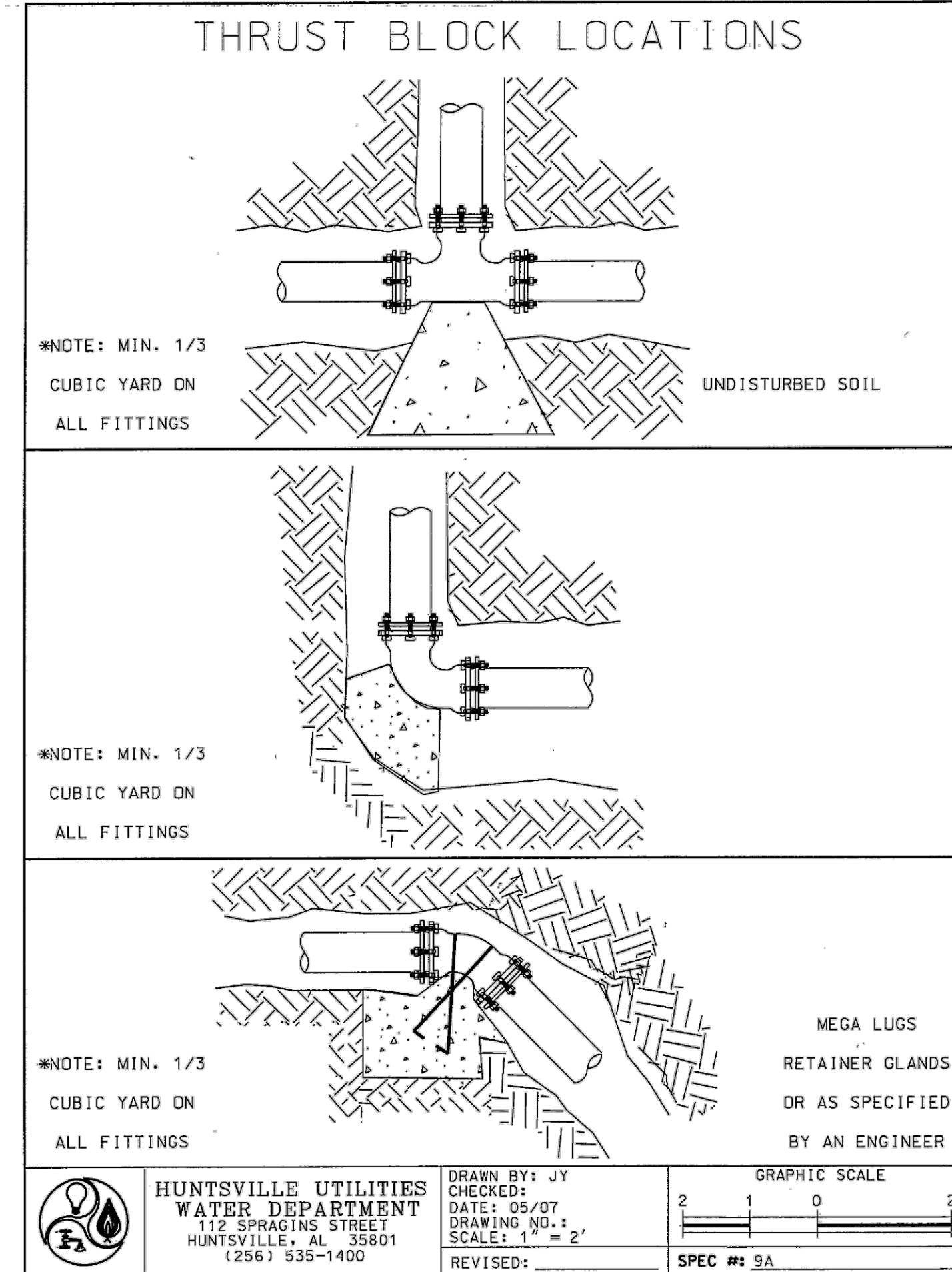
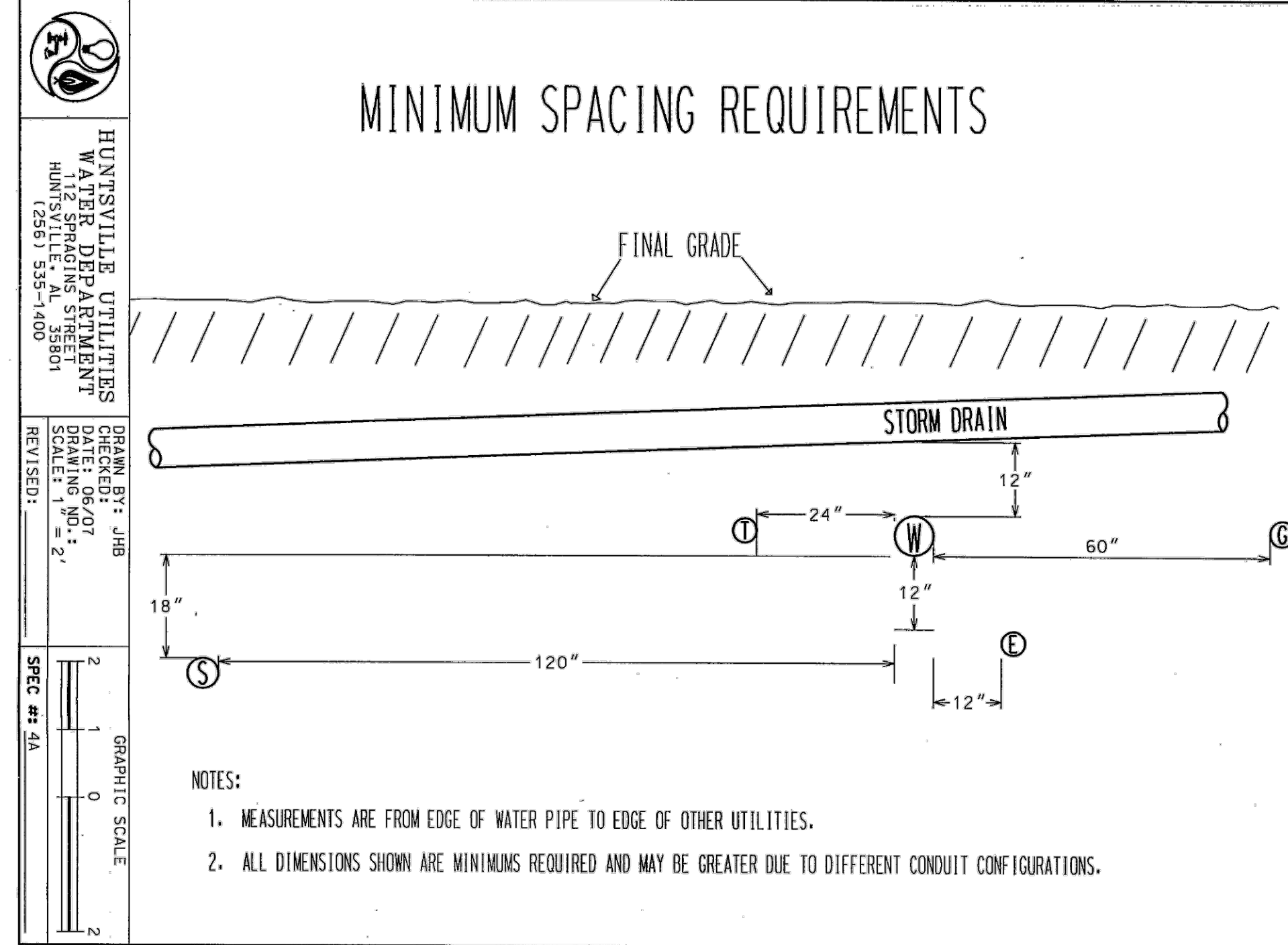
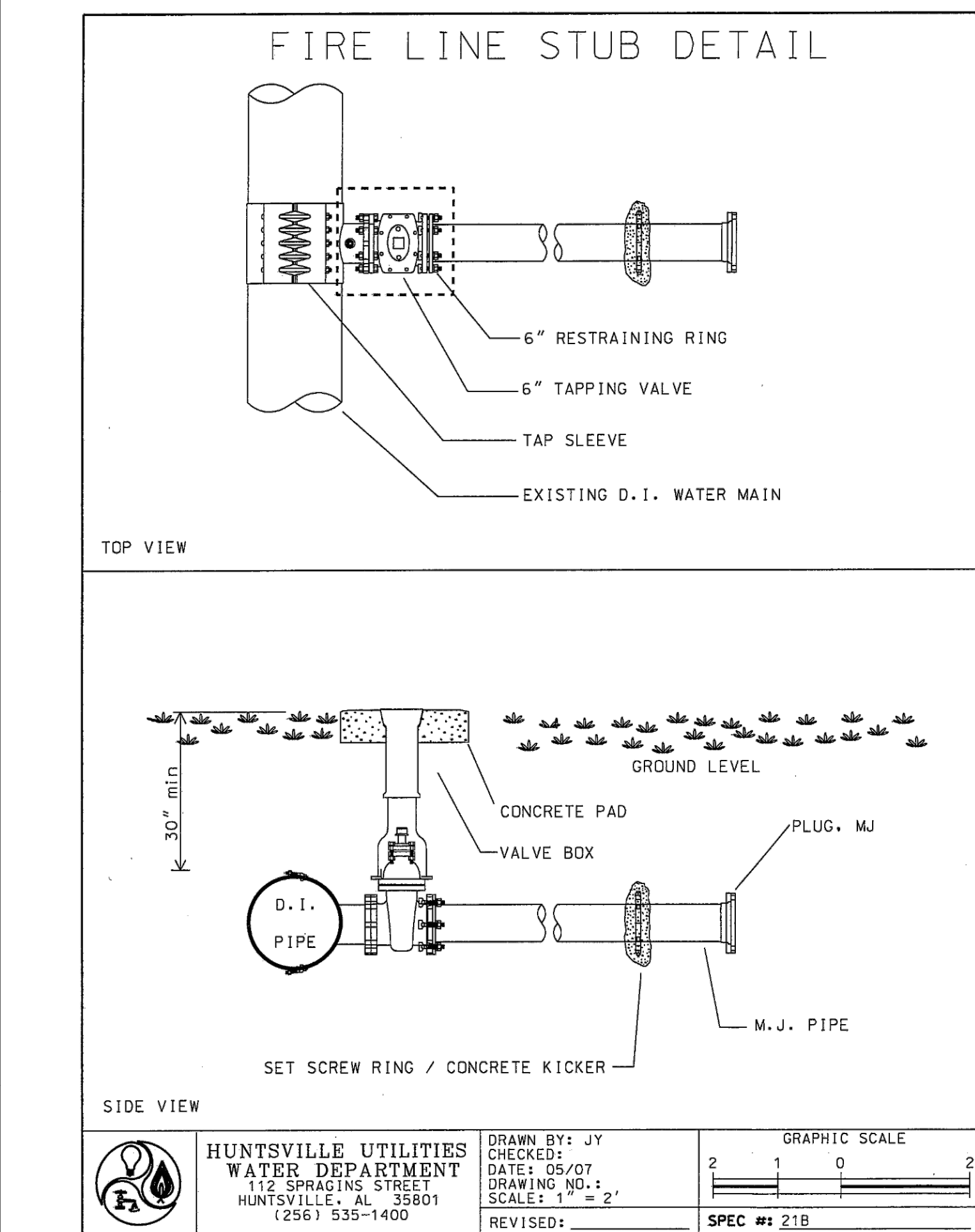
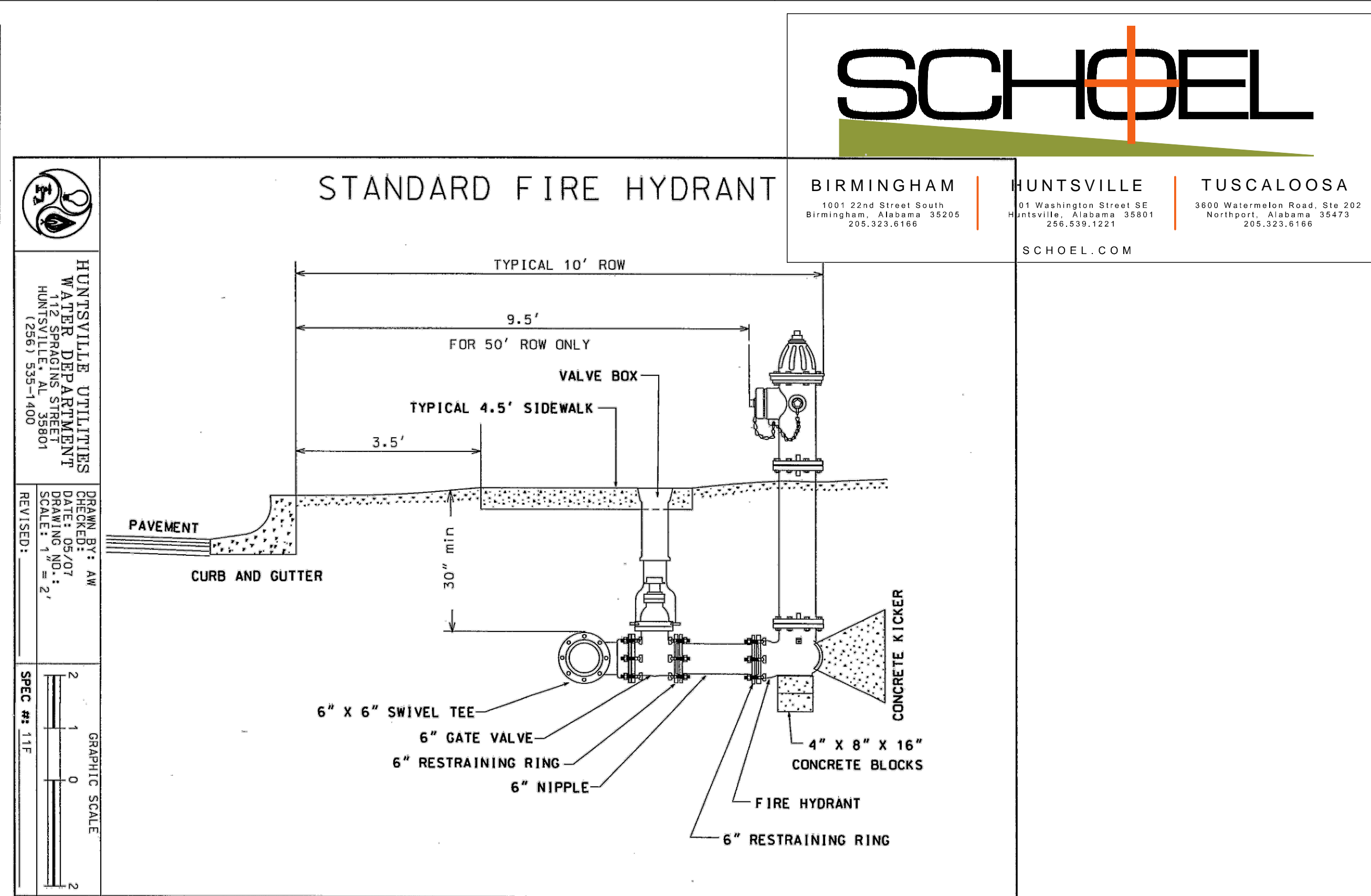
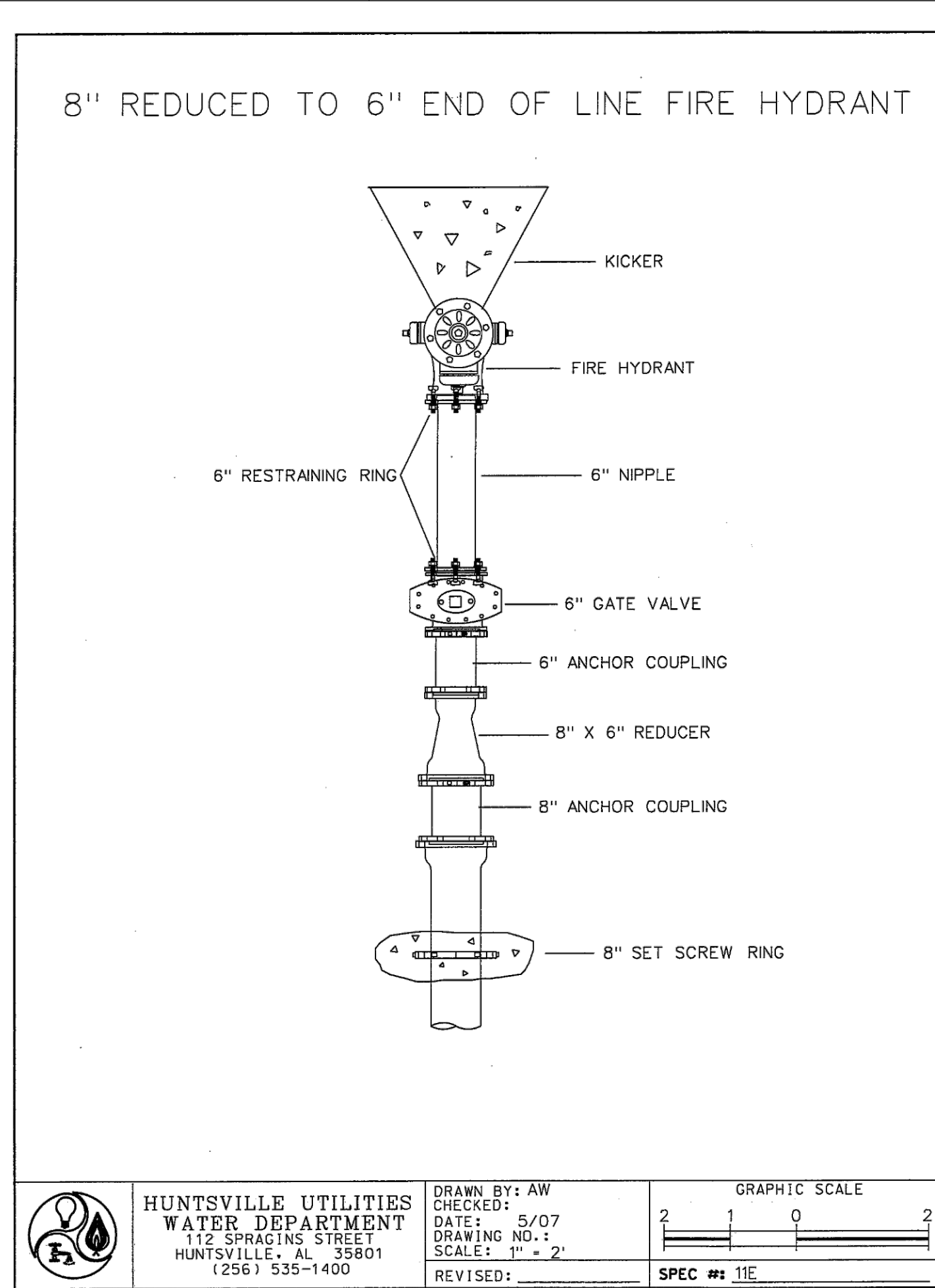
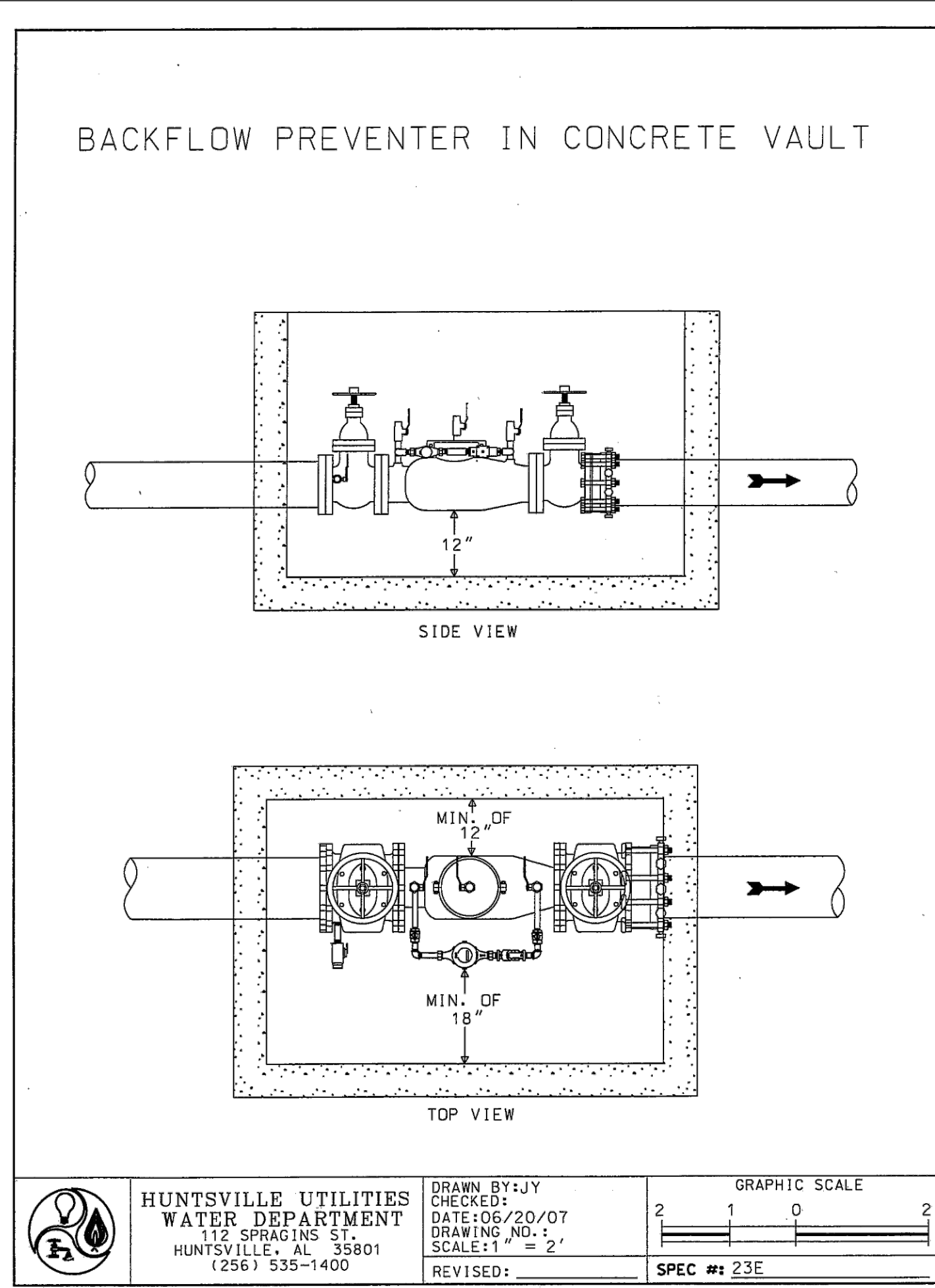
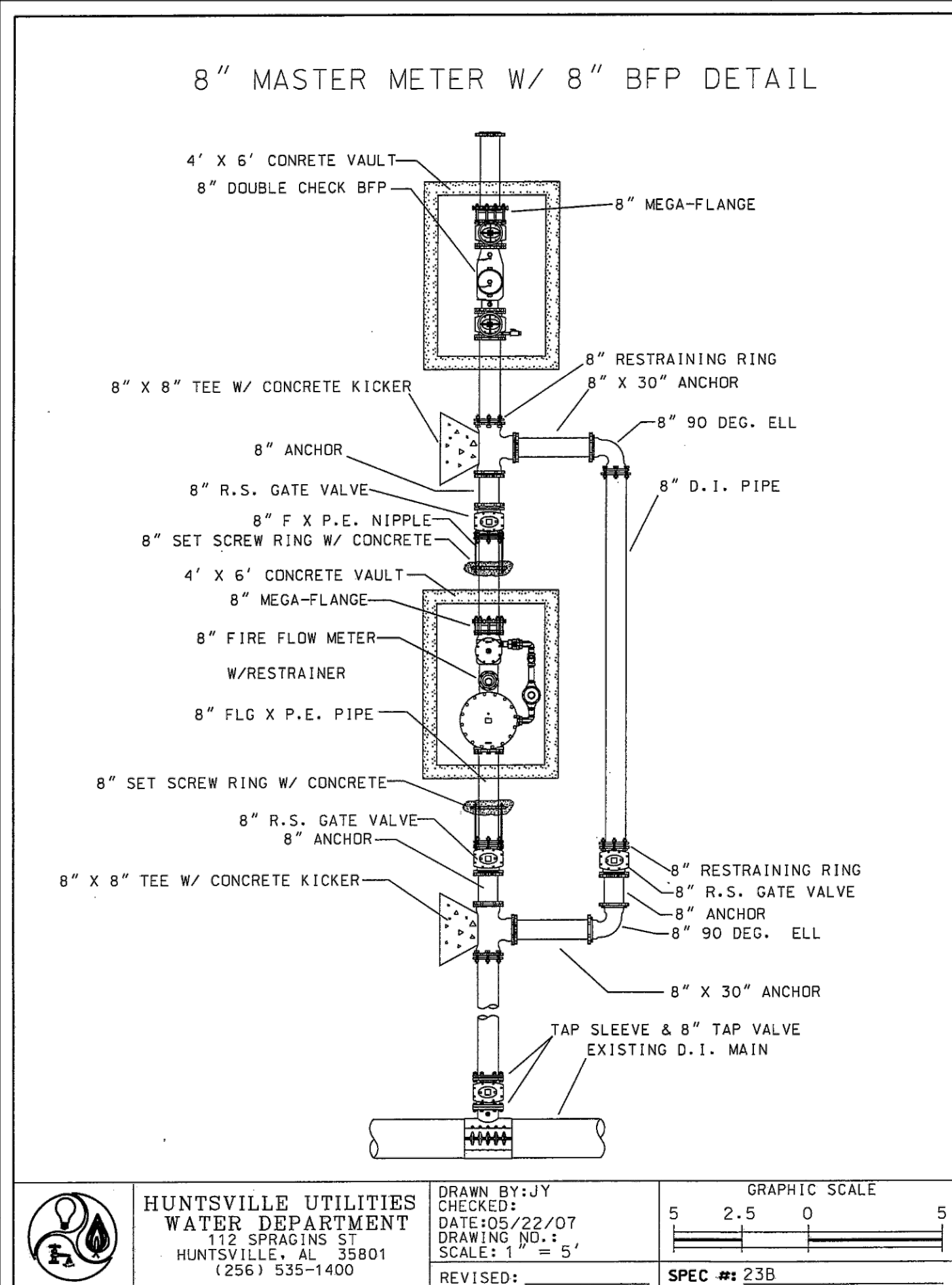
J.CARGILE

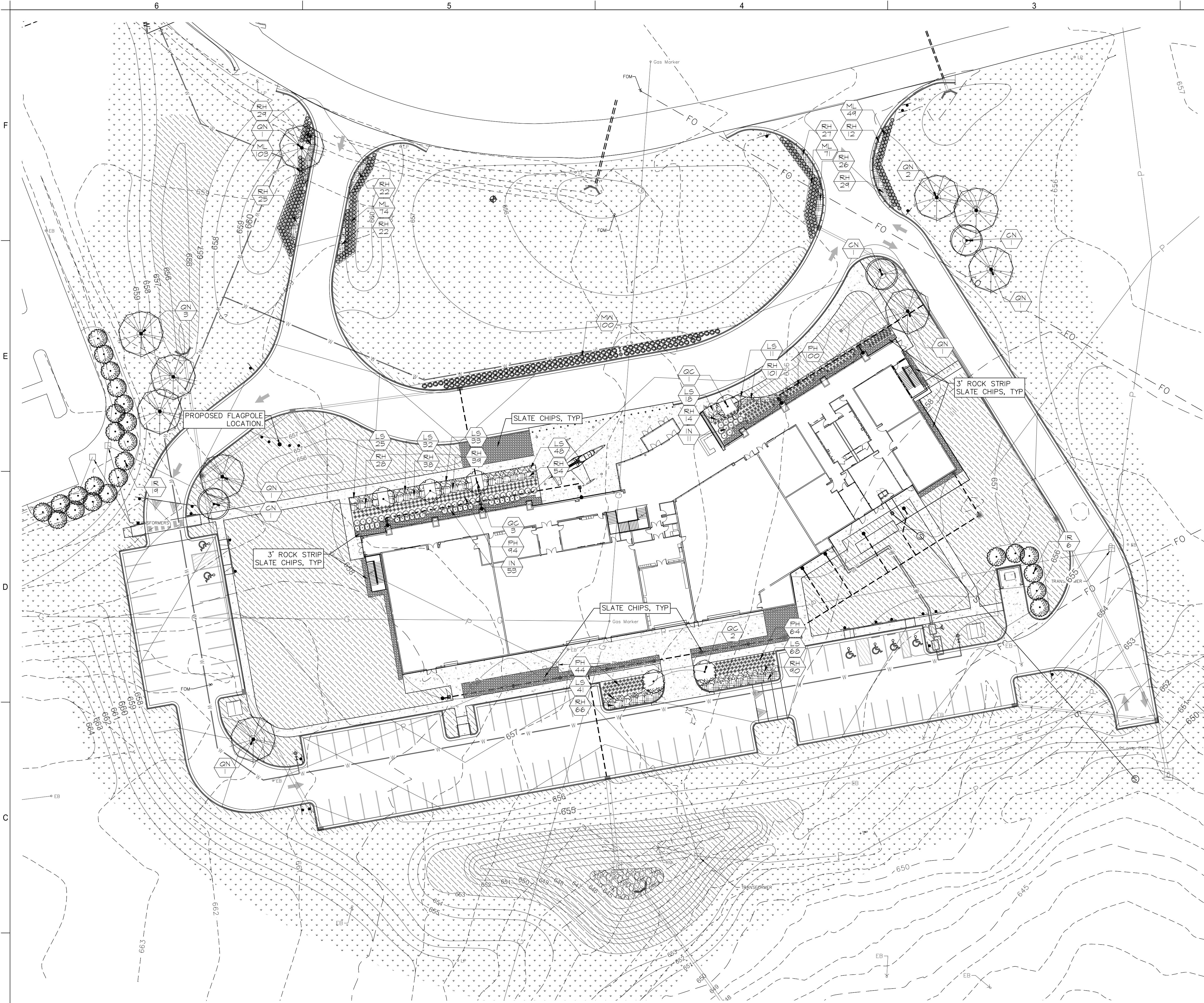
PROJECT NUMBER

225029-00

DRAWING NO.

C-11.1





LANDSCAPE NOTES:

- CONTRACTOR IS RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES ON THE SITE. REPAIR DAMAGED UTILITIES TO OWNER'S SATISFACTION AT NO ADDITIONAL COST.
- VERIFY QUANTITIES ON PLANS BEFORE PRICING WORK AND PROVIDE PLANT MATERIAL IN SIZES AND VARIETIES SHOWN ON THE DRAWINGS AND PLANT LIST.
- ALL PLANT MATERIAL SHALL BE GUARANTEED ONE FULL YEAR, FREE REPLACEMENT ON LABOR & MATERIAL. SEPARATE AGREEMENT WITH INSTALLER SHALL BE PROVIDED, TO INCLUDE CONTACT NAME/PH. NUMBERS
- SOD ALL AREAS ACCORDING TO LANDSCAPE PLAN AND SEED ALL OTHERS.
- LANDSCAPE ARCHITECT MAY OR MAY NOT AT HIS/HER DISCRETION ACCEPT SUBSTITUTIONS.
- PROVIDE FRESHLY DUG TREES AND SHRUBS. DO NOT USE NATURALLY COLLECTED MATERIALS.
- PLANT MATERIAL STORED ON THE SITE MORE THAN 8 HOURS PRIOR TO PLANTING SHALL BE HEELED IN WITH MULCH AND KEPT MOIST.
- INSTALL ALL PLANT MATERIALS IN ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
- STAKE PLANT LOCATIONS FOR APPROVAL BY LANDSCAPE ARCHITECT BEFORE INSTALLATION. ADJUST STAKE LOCATIONS AS DIRECTED.
- ALL PLANTS SHALL MEET SPECIFICATIONS. ROOTBALLS SHALL MEET OR EXCEED SIZE STANDARDS SET FORTH IN ANSI 260.1, 'AMERICAN STANDARD FOR NURSERY STOCK'. MAIN LEADERS OF ALL TREES SHALL REMAIN INTACT.
- MULCH PLANT PITS AND PLANTING BEDS WITH PINE STRAW OR SHREDDED WOOD CHIPS TO A DEPTH OF 3 INCHES.
- PREPARE ALL TOPSOIL TO BE USED IN ALL PLANTING AREAS IN THE FOLLOWING PROPORTIONS:
4 PARTS TOP SOIL
2 PARTS DECOMPOSED ORGANIC MATTER
1 PART APPROVED SOIL AMENDMENT
1 PART MYCORRHIZAE FUNGI PER MANUFACTURER SPEC'S
- REMOVE FROM SITE ANY PLANT MATERIAL WHICH TURNS BROWN OR DEFOOLIATES WITHIN 5 DAYS AFTER PLANTING. REPLACE IMMEDIATELY WITH APPROVED SPECIFIED PLANT MATERIAL.
- WHEN LANDSCAPE WORK IS COMPLETE, LANDSCAPE ARCHITECT WILL, UPON REQUEST MAKE AN INSPECTION TO DETERMINE ACCEPTABILITY.
- MAINTAIN ALL PLANT MATERIAL UNTIL THE JOB IS ACCEPTED IN FULL BY THE LANDSCAPE ARCHITECT UNLESS OTHERWISE SPECIFIED.
- LOCATE PLANT MATERIAL PRIOR TO SUBMITTING BID // OR QUALIFY BID WITH RECOMMENDED PLANT SUBSTITUTIONS. SUBMISSION OF BID SHALL CONSTITUTE CONTRACTORS ACCEPTANCE OF PLANT AVAILABILITY.
- ALL TREES WILL BE MULCHED WITH PINE STRAW OR SHREDDED WOOD CHIPS, AND BE STAKED AS SHOWN ON DRAWINGS. STAKES AND GUY WIRE TO BE REMOVED BY AND REMAIN THE PROPERTY OF THE CONTRACTOR.

NOTE: THE OWNER, LESSEE, OR HIS AGENT SHALL BE RESPONSIBLE FOR PROVIDING, MAINTAINING, AND PROTECTING ALL LANDSCAPING IN A HEALTHY AND GROWING CONDITION, AND FOR KEEPING IT FREE FROM REFUSE AND DEBRIS. ALL UNHEALTHY AND DEAD MATERIALS SHALL BE REPLACED WITHIN ONE YEAR AFTER NOTIFICATION OR DURING THE NEXT APPROPRIATE PLANTING PERIOD, WHICHEVER COMES FIRST.

NOTE: THE SOD SHALL BE PLACED ON THE PREPARED SURFACE WITH THE EDGES IN CLOSE CONTACT, CRACKS BETWEEN BLOCKS OF SOD SHALL BE CLOSED WITH SMALL PIECES OF SOD, AND ACCEPTABLE LOAMY TOP SOIL SHALL BE USED TO FILL JOINTS. THE ENTIRE SODDED AREA SHALL THEN BE TAMPED IN PLACE IN A SATISFACTORY MANNER AND WATERED AS NECESSARY.



NOTE: ALL UTILITY LOCATIONS HAVE BEEN PROVIDED BY THE RESPECTIVE UTILITY DEPARTMENTS OR COMPANIES. CONTRACTORS ARE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES. CALL UTILITY COMPANY OR CITY DEPARTMENTS FOR GROUND LOCATIONS BEFORE DIGGING.

BIRMINGHAM

1801 23rd Street South
Birmingham, Alabama 35205
205.323.6166

HUNTSVILLE

181 Washington Street SE
Huntsville, Alabama 35801
256.538.1021

TUSCALOOSA

3600 Westheimer Road, Ste. 202
Northport, Alabama 35477
256.325.6166

SCHOEEL.COM

K|P|S

G R O U P

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

This drawing is an Instrument of Service for this Project and is the sole and exclusive property of the Architect. Any use without the knowledge and written consent of the Architect is prohibited.

The Architect shall not have control or charge of, and shall not be responsible for construction Means and Methods, deviations, techniques, sequences, or procedures, or for safety programs and precautions in connection with the Work, for the acts or omissions of the Contractor. Subcontractors or any other persons performing any of the Work in accordance with the Contract Documents.



PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	CAL	HEIGHT	QTY
TREES						
	CN	<i>Carpinus caroliniana</i> 'Native Flame' / Native Flame Hornbeam	B 4 B	3" CAL	12' Min.	3
	IR	<i>Ilex x 'Nellie R. Stevens'</i> / Nellie R. Stevens Holly	B 4 B		6' Min.	25
	QC	<i>Quercus bicolor</i> 'Bonnie and Mike' / Beacon® Oak	Seedling	3" Cal.	10' Min.	6
	ON	<i>Quercus nuttallii</i> / Nuttall Oak	B 4 B	3" Cal.	12' Min.	10

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	HEIGHT	QTY
SHRUBS					
	IN	<i>Ilex vomitoria</i> 'Nana' / Dwarf Yaupon	3 Gal.	15" Min.	64
	MN	<i>Muhlenbergia capillaris</i> 'White Cloud' / White Muhly Grass	1 Gal.	18" Min.	100
	ML	<i>Muhlenbergia capillaris</i> 'Lenca' / Regal Mist® Pink Muhly Grass	1 Gal.	18" Min.	297
	PH	<i>Panicum virgatum</i> 'Heavy Metal' / Heavy Metal Switch Grass	1 Gal.	18" Min.	316

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	QTY
SHRUB AREAS				
	LS	<i>Leucanthemum x superbum</i> 'Shortstop' / Shortstop Shasta Daisy	5" Pot	219
	RH	<i>Rudbeckia hirta</i> / Black-eyed Susan	5" Pot	1,085

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	QTY
GROUND COVERS			
	CT	<i>Cynodon dactylon</i> 'Tif 419' / Tif 419 Bermuda Grass	56,854 sf
	SN	Seed x Straw / SEED AND STRAW	143,099 sf

USSRC - INSPIRATION 4 TRAINING FACILITY

OWNER
UNITED STATES SPACE AND ROCKET CENTER

PROJECT ADDRESS
1 Tranquility Base
Huntsville, AL 35805



PROJECT STATUS:
ISSUED: BID SET FOR CONSTRUCTION

ISSUE DATE: February 5, 2024

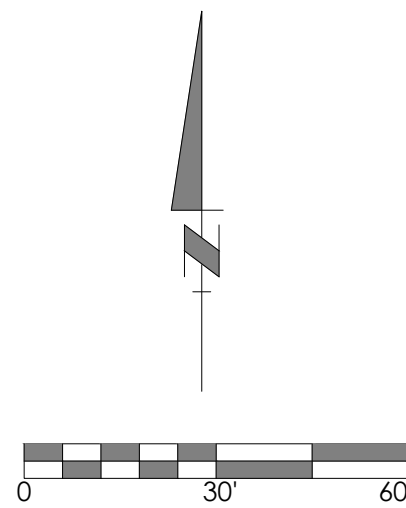
REVISIONS	No.	Description	Date
-----------	-----	-------------	------

DRAWING TITLE
LANDSCAPE
PLAN

DRAWN BY: S. BELL
CHECKED BY: C. ORCUTT

PROJECT NUMBER
225029-00

DRAWING NO.
L-1.0



This drawing is an Instrument of Service for this Project and is the sole and exclusive property of the Architect. Any use without the knowledge and written consent of the Architect is prohibited.

The Architect shall not have control or charge of, and shall not be responsible for construction Means and Methods, deviations, techniques, sequences, or procedures, or for safety programs and precautions in connection with the Work, for the acts or omissions of the Contractor, Subcontractors or any other persons performing any of the Work in accordance with the Contract Documents.



USSRC - INSPIRATION 4 TRAINING FACILITY

OWNER
UNITED STATES SPACE AND ROCKET CENTER

PROJECT ADDRESS
1 Tranquility Base
Huntsville, AL 35805



PROJECT STATUS: BID SET FOR CONSTRUCTION

ISSUE DATE: February 5, 2024

REVISIONS

No.	Description	Date
-----	-------------	------

DRAWING TITLE

LANDSCAPE DETAILS

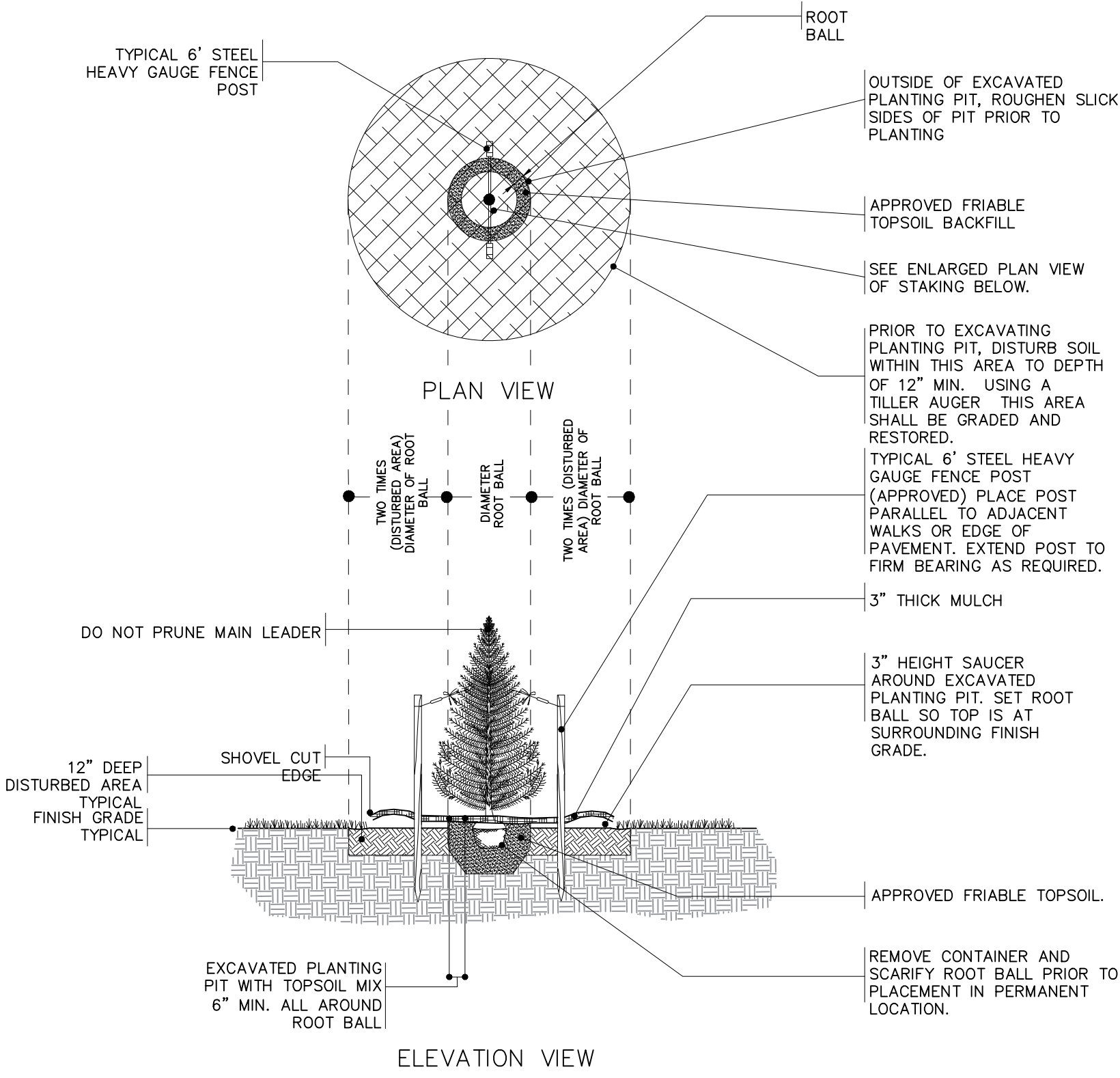
DRAWN BY: S. BELL
CHECKED BY: C. ORCUTT

PROJECT NUMBER

225029-00

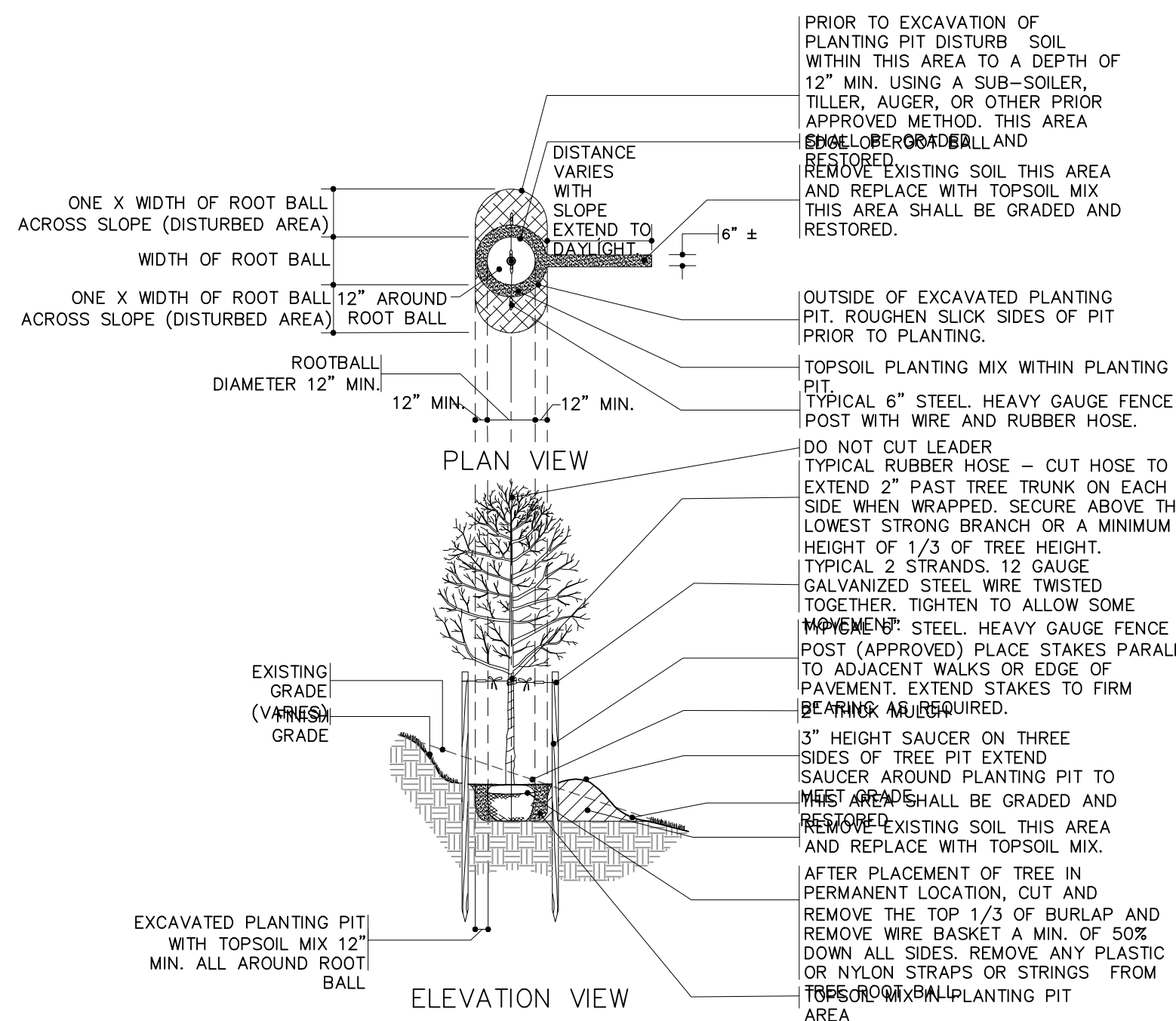
DRAWING NO.

L-2.0



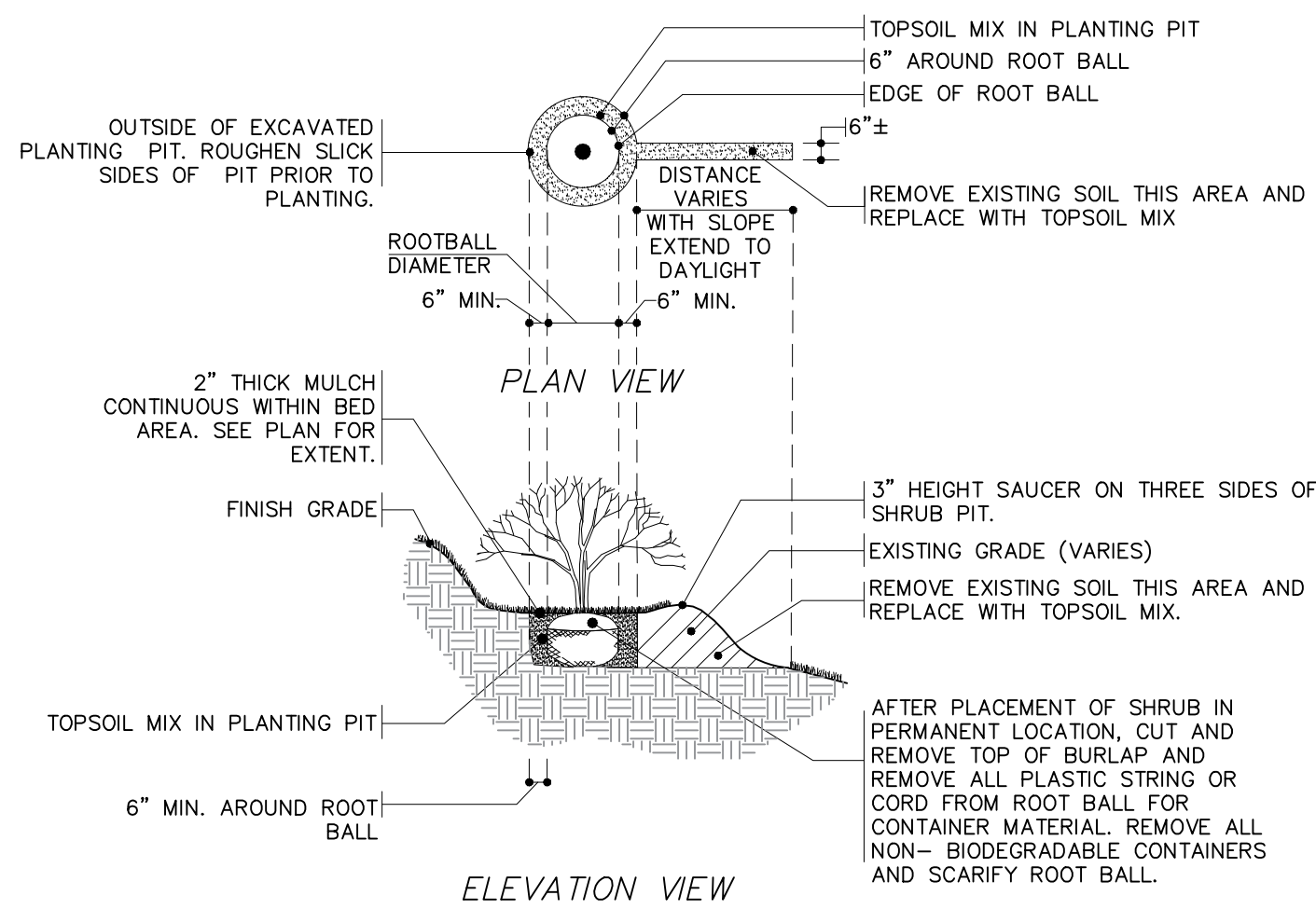
EVERGREEN TREE PLANTING

NOT TO SCALE



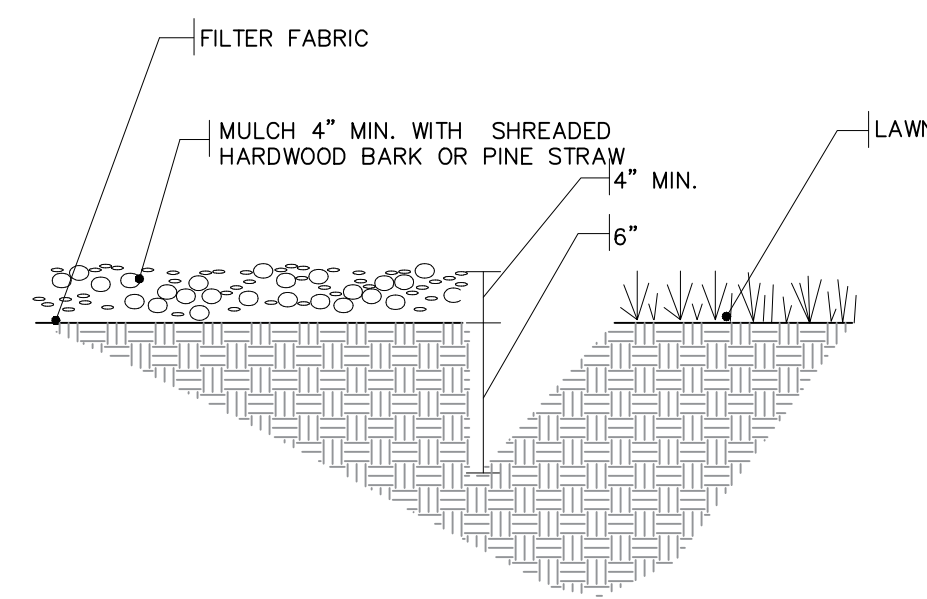
TREE PLANTING ON 3:1 SLOPES

NOT TO SCALE



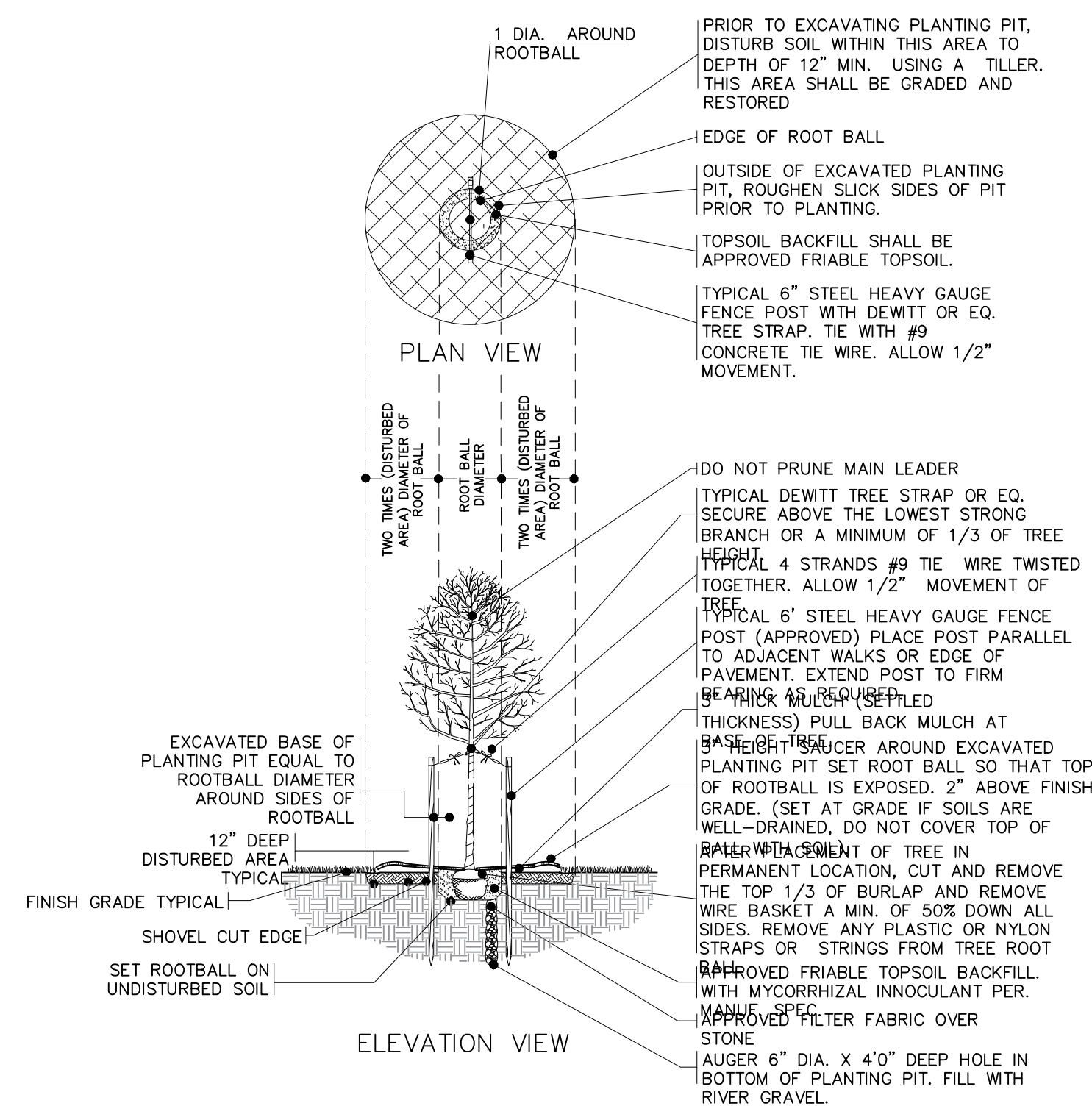
SHRUB PLANTING ON 3:1 SLOPES

NOT TO SCALE



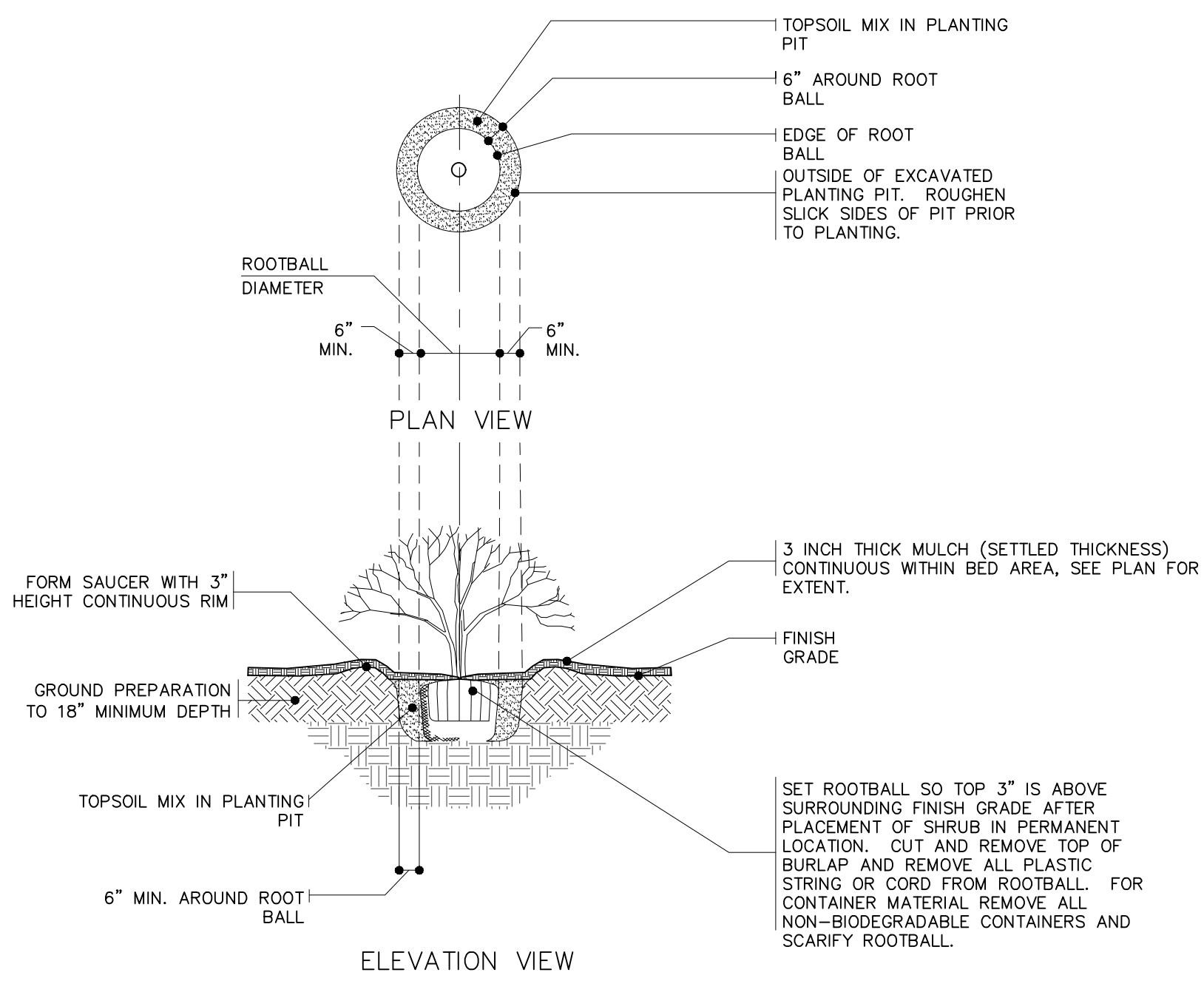
SHOVEL-CUT EDGE

NOT TO SCALE



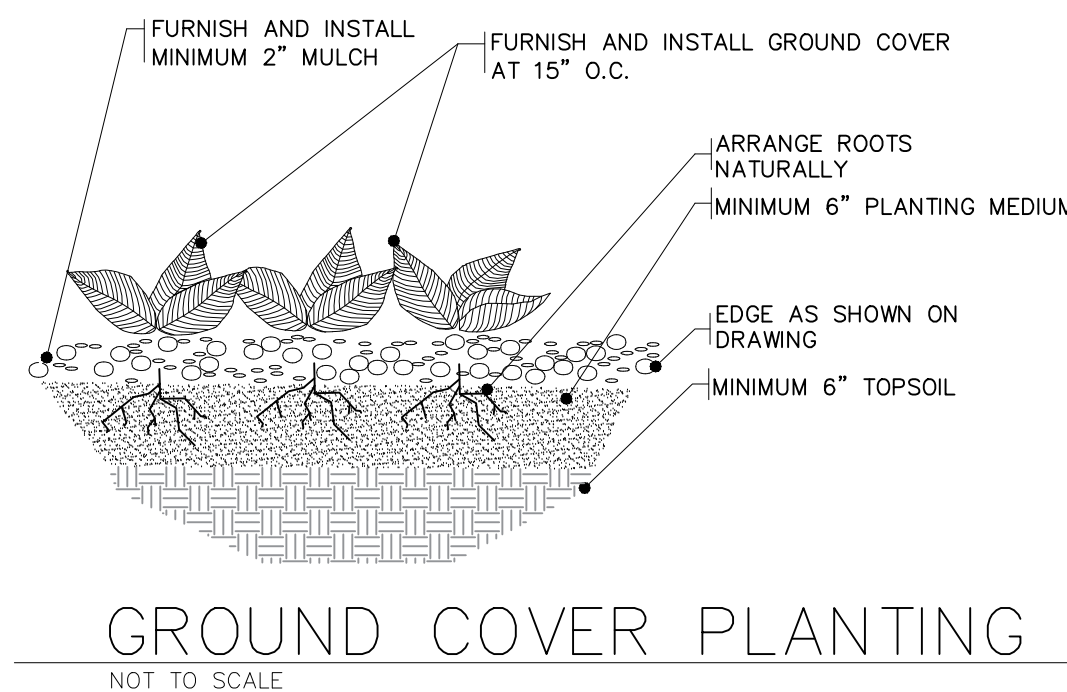
TREE PLANTING

NOT TO SCALE



SHRUB PLANTING

NOT TO SCALE



GROUND COVER PLANTING

NOT TO SCALE

This drawing is an Instrument of Service for this Project and is the sole and exclusive property of the Architect. Any use without the knowledge and written consent of the Architect is prohibited.

The Architect shall not have control or charge of, and shall not be responsible for construction Means and Methods, deviations, techniques, sequences, or procedures, or for safety programs and precautions in connection with the Work, for the acts or omissions of the Contractor. Subcontractors or any other persons performing any of the Work in accordance with the Contract Documents.



IRRIGATION NOTES

- TEST EACH TAP FOR WORKING AND STATIC PRESSURE PRIOR TO INSTALLATION OF ANY MAIN AND LATERAL LINES. NOTIFY OWNER/AGENT OF TEST PRESSURE AND COMMENCE WORK UPON WRITTEN AUTHORIZATION ONLY.
- CONTRACTOR SHALL FURNISH PROPER RADIUS NOZZLES FOR ALL SPRAY AND ROTOR HEADS. ROTOR NOZZLES TO MATCH PRECIPITATION RATES AS CLOSE AS POSSIBLE. ALL HEADS SHALL BE CHOSEN FOR ADEQUATE COVERAGE AND MINIMIZE OVERSPRAY ON WALKS, BUILDINGS, AND PARKING LOT.
- CONNECT SYSTEM TO EXISTING MAINS. VERIFY PSI STATIC PRESSURE AND GPM MINIMUM SHOWN ON PLANS FOR CONNECTION.
- ALL EQUIPMENT REQUIRED BUT NOT SPECIFIED ON THE DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS OR SPECIFICATIONS.
- PRECIPITATION RATES ARE SPECIFIED ON THE PLAN. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION.
- MAXIMUM LENGTH OF FUNNY PIPE - 24". MINIMUM LENGTH - 14".
- PROVIDE THE FOLLOWING PIPE SIZES/FLOW RATES.
FLOW RATES FOR PVC CLASS 200 IPS PIPE AT MAXIMUM 5 FT./SEC.

PIPE SIZE	PIPE SIZE
3/4"	5 GPM
1"	10 GPM
1 1/4"	16 GPM
1 1/2"	35 GPM
2"	55 GPM
2 1/2"	80 GPM
3"	120 GPM
4"	200 GPM
- CONTRACTOR IS TO SET CONTROLLERS TO THE WATERING SCHEDULE AS SPECIFIED IN THE PLAN. CONTRACTOR IS TO MONITOR PLANT LIFE AND ADJUST WATERING SCHEDULE AS NECESSARY TO PROMOTE PROPER PLANT GROWTH.
- SUPPLY ALL EQUIPMENT AS SPECIFIED ON PLAN. QUANTITIES SHOWN ON THIS SHEET ARE PROVIDED FOR CONVENIENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING QUANTITIES PRIOR TO SUBMITTING BID.
- CONTRACTOR TO SUPPLY COMPLETE SHOP DRAWINGS AND HYDRAULIC ANALYSIS TO VERIFY ANY SUBSTITUTIONS PROPOSED PRIOR TO APPROVAL. CONTRACTOR SHALL SUPPLY EQUIPMENT SHOWN, OR SHOW CAUSE FOR SUBSTITUTION. INTENTION OF EQUIPMENT SUBSTITUTION SHALL BE SHOWN IN A QUALIFIED BID. APPROVAL FOR SUBSTITUTION FOR EQUIPMENT CAN BE MADE ONLY AFTER PERFORMANCE CRITERIA AND/OR ACTUAL FIELD TEST/PERFORMANCE ARE ASCERTAINED TO BE EQUAL TO THAT EQUIPMENT SPECIFIED. SUBMITTAL OF AN UNQUALIFIED BID CONSTITUTES ACCEPTANCE OF EQUIPMENT AND PERFORMANCE SPECIFICATION BY THE CONTRACTOR.
- LANDSCAPE IRRIGATION PLAN IS DIAGRAMMATIC. FINAL LOCATION OF PIPING SHALL BE DETERMINED AT TIME OF INSTALLATION. MAIN LINES AND LATERAL LINES SHALL BE PLACED IN SAME TRENCH WHEN POSSIBLE. REFER TO PLAN AND DETAILS FOR TYPICAL HEAD LAYOUT.
- LEAVE 36" OF ADDITIONAL WIRE AT EACH VALVE LOCATION. ROLL WIRE INTO COIL AT EACH VALVE LOCATION. RUN EXTRA WIRE TO EACH VALVE. 2 WIRE SYSTEMS REQUIRE A MIN. 36" LOOP PER DECODER LOCATION.
- CLEAN ALL LINES BY FLUSHING WITH WATER PRIOR TO DRIP INSTALLATION.
- CONTRACTOR SHALL PROVIDE ONE SYSTEM SHUT DOWN AND WINTERIZATION IN FALL AFTER PROJECT ACCEPTANCE AND SPRING START UP OF THE SYSTEM THE FOLLOWING SEASON.
- ALL WORK MUST COMPLY WITH LOCAL CODES.
- LOCATE LINES IN COMMON TRENCH WHERE POSSIBLE AND AVOID LOCATING LINES UNDER LANDSCAPING
- MULTIPLE TUBES OR WIRES SHALL BE BUNDLED AND TAPED TOGETHER AT 20 FOOT INTERVALS
- DEPTH OF COVER SHALL BE 18" FOR LOW-VOLTAGE WIRES.

RECOMMENDED MAINTENANCE SCHEDULE

DESIGN/INSTALLATION PHASE:
MAKE SURE COMPONENTS ARE PLACED FOR EASY ACCESS. COMPLETELY FLUSH THE SYSTEM PRIOR TO OPERATION TO REMOVE ALL DEBRIS. BE ESPECIALLY CAREFUL TO KEEP PIPE SHAVINGS AND BURRS FROM RIGID PVC TUBING OUT OF THE LINES.

AFTER TWO WEEKS OF OPERATION:
INSPECT AND CLEAN ALL FILTERS. ESTABLISH A CLEANING SCHEDULE BASED ON THE AMOUNT OF DEBRIS FOUND DURING INSPECTION. PERFORM WALK-THROUGH INSPECTION FOR SIGNS OF PLANT STRESS. RUN SYSTEM AND CAREFULLY CHECK EACH EMISSION DEVICE FOR PROPER OPERATION. LISTEN FOR RUNNING WATER THAT COULD INDICATE BREAKS IN LINES.

FLUSH LINES AND LOOK FOR SIGNS OF DEBRIS IN WATER. DEBRIS OR SUSPENDED MATTER IN THE WATER COULD INDICATE BREAKS IN THE LINES OR FAILED FILTERS. IF NO BREAKS OR DAMAGED FILTERS ARE FOUND, CONSIDER REPLACING FILTERS WITH FINER MESH SCREENS.

ADJUST EMISSION DEVICES TO ASSURE THAT WETTING PATTERNS ARE WITHIN PLANT ROOT ZONES. IF WETTING PATTERN CAN BE SEEN ON TOP OF SOIL, BE SURE THAT IT OVERLAPS THE BASE OF THE PLANT TO PROVIDE LEACHING OF SALTS AWAY FROM THE PLANT.

EVERY 1-2 MONTHS OR AS NEEDED:
EXAMINE AND CLEAN ALL FILTERS. REPLACE FILTER SCREENS IF NECESSARY. PERFORM A WALK-THROUGH TO LOOK FOR SIGNS OF PLANT STRESS. CHECK ALL EMISSION DEVICES FOR LOCATION AND FLOW. ADJUST, CLEAN, OR REPLACE EMISSION DEVICES AS REQUIRED.

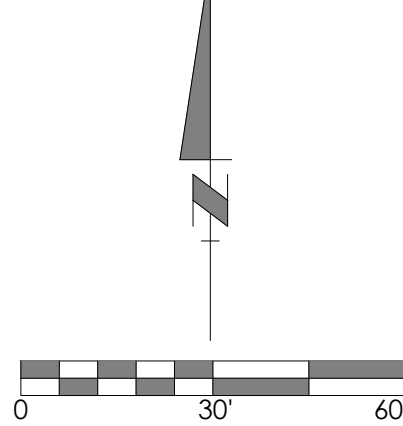
TWICE PER YEAR OR MORE FREQUENTLY AS REQUIRED:
FLUSH ALL LINES. EXAMINE WATER SAMPLE FOR SIGNS OF DEBRIS AND SUSPENDED MATTER. FLUSH UNTIL WATER RUNS CLEAR.

*CONTRACTOR TO PROVIDE (1) 1" GATE VALVE FOR SYSTEM ISOLATION AS NEEDED. PLACE VALVE ALONG SYSTEM MAIN LINE.

*CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR EXISTING IRRIGATION AND NEW IRRIGATION LINES, VALVES, AND HEADS. INCLUDE CRITICAL ANALYSIS FOR THE SYSTEM.



NOTE: ALL UTILITY LOCATIONS HAVE BEEN PROVIDED BY THE RESPECTIVE UTILITY DEPARTMENTS OR COMPANIES. CONTRACTORS ARE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES. CALL UTILITY COMPANY OR CITY DEPARTMENTS FOR GROUND LOCATIONS BEFORE DIGGING.



SLEEVE TABLE

PIPE SIZE	SLEEVE SIZE
2"	2 1/2"
1"	3"
1 1/2"	3 1/2"
2"	6"
2 1/2"	6"
3"	6"

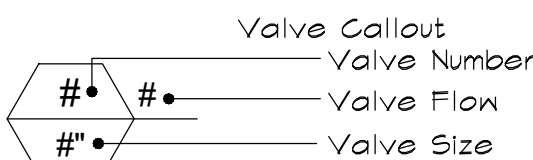
IN ALL CASES, SLEEVES MUST BE A MIN. OF 2" LARGER (ID) THAN THE LARGEST EXTERIOR OF PIPES, FITTINGS, ETC. ALL MAINLINE PIPES, LATERAL PIPES, AND WIRE SHALL BE HOUSED IN SEPARATE SLEEVES.

IRRIGATION DESIGN NOTE:

IRRIGATION IS REQUIRED FOR ALL LANDSCAPE AND SOD AREAS. CONTRACTOR TO PROVIDE IRRIGATION SHOP DRAWINGS FOR APPROVAL BY SCHOEL. CONTRACTOR TO FIELD VERIFY A MINIMUM OF 60 PSI, IF LESS THAN 60 PSI CONTACT SCHOEL. ALL PROPOSED LANDSCAPE AREAS TO BE FULLY IRRIGATED AND SHALL CONNECT WITH EXISTING IRRIGATION SYSTEM TO ENSURE PRECIPITATION RATES MATCH ON ALL CIRCUITS. CONTRACTOR TO PROVIDE AND/OR RESET EXISTING

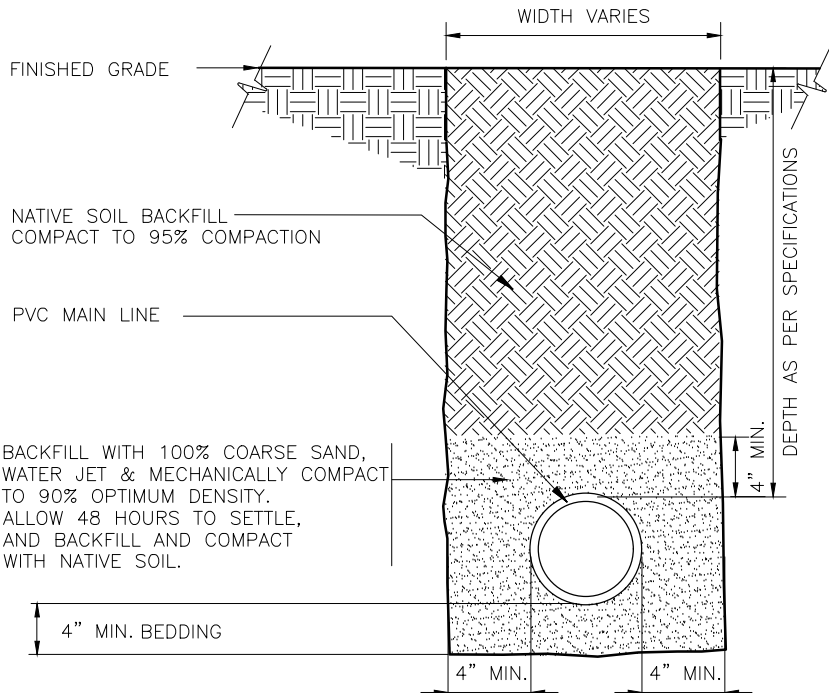
IRRIGATION IN AREAS OF DISTURBANCE

SYMBOL	MANUFACTURER/MODEL	QTY
=====	Pipe Sleeve: PVC Schedule 40	463.7 I.P.



NOTE:

SLEEVES TO BE A MINIMUM OF 6" IN DIAMETER WHEN CROSSING VEHICULAR AREAS.
TYPICAL PIPE SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL.
EXTEND SLEEVES 18" BEYOND EDGES OF PAVING OR CONSTRUCTION.



SLEEVE AT ROAD
N.T.S.

DETAIL-MLE

USSRC - INSPIRATION 4 TRAINING FACILITY

OWNER
UNITED STATES SPACE AND ROCKET CENTER

PROJECT ADDRESS
1 Tranquility Base
Huntsville, AL 35805

PROJECT STATUS: BID SET FOR CONSTRUCTION

ISSUE DATE: February 5, 2024

REVISIONS
No. Description Date

DRAWING TITLE
IRRIGATION PLAN

DRAWN BY: M. ROBINSON
CHECKED BY: C. ORCUTT

PROJECT NUMBER
225029-00

DRAWING NO.

I-1.0