



NORTHEAST COLLEGE
HOUSTON, TEXAS

NORTH FOREST CAMPUS PERIMETER FENCE AND DRAINAGE IMPROVEMENTS

6010 LITTLE YORK ROAD
HOUSTON, TX 77016

TABS2020010473
ISSUED FOR CONSTRUCTION
JANUARY 28, 2020

HOUSTON COMMUNITY COLLEGE
3100 N.W.M. STREET HOUSTON, TEXAS 77002
(713) 716-2000 FAX (713) 716-7617

OWNER

PGAL, INC.
3131 BELLEFRANK DRIVE, SUITE 200 HOUSTON, TX 77042
(713) 824-1444 FAX (713) 884-8333

ARCHITECT & CIVIL

HENDERSON + ROGERS, INC.
3302 LAUREL LN #805 HOUSTON, TX 77027
(713) 435-8800 FAX (713) 435-8888

STRUCTURAL ENGINEER

INFRASTRUCTURE
6117 REDWOOD AVENUE, SUITE 200 HOUSTON, TX 77057
(713) 624-0120 FAX (713) 624-0527

MEP ENGINEER

FERGUSON CONSULTING
23201 TUCKERHURST LANE HOUSTON, TEXAS 77058
(281) 295-8232 FAX (281) 895-8773

TELECOMMUNICATIONS & SECURITY

M2L ASSOCIATES INC.
8955 KATY FREEWAY, SUITE 300 HOUSTON, TEXAS 77024
(713) 722-4987 FAX (713) 722-9498

LANDSCAPE ARCHITECT

SHEET INDEX

G0.01 PROJECT INFORMATION
G1.01 SPECIFICATIONS
C0.01 CONSTRUCTION NOTES
C1.01 STORM UTILITY DRAINAGE PIPING SPECIFICATIONS
C1.20 SITE CLEARING SPECIFICATIONS
C1.30 EXCAVATION SUPPORT AND PROTECTION SPECIFICATIONS
C1.40 DEWATERING SPECIFICATIONS
C2.10 CIVIL SITE PLAN
C3.30 DRAINAGE AREA MAP
C5.00 SWPPP PLAN
C7.00 STORM DETAILS
C8.00 COH STANDARD DETAILS - GENERAL
C8.10 COH STANDARD DETAILS - STORM
L1.01 LANDSCAPE PLAN
L1.02 LANDSCAPE SITE DEVELOPMENT PLAN
L2.00 PLANTING DETAILS
A0.10 OVERALL SITE PLAN
A4.00 ENLARGED PLAN
A4.01 ENLARGED PLAN
A4.02 ENLARGED PLAN
A5.01 DETAILS
A6.00 ELEVATIONS
A6.01 ELEVATIONS
S0.00 GENERAL NOTES AND DETAILS
E1.01 NOTES AND LEGENDS
E1.02 ONE LINE DIAGRAM
E2.01 SITE PLAN - ELECTRICAL
SC1.01 SITE PLAN - SECURITY
SC3.01 ENLARGED PLANS - SECURITY
SC3.02 SECURITY DETAILS

PROJECT INFORMATION

ADDRESS: 6010 HOMESTEAD ROAD AT LITTLE YORK HOUSTON, TX 77016

OWNER: HOUSTON COMMUNITY COLLEGE
3100 MAIN STREET
HOUSTON, TX 77002
ATTN: MARSHALL B. HEINS
[713] 718-7495

PROJECT DESCRIPTION:
SITE PERIMETER FENCE ON EXISTING CAMPUS
IMPROVEMENTS TO EXISTING SITE STORM DRAINAGE SYSTEM

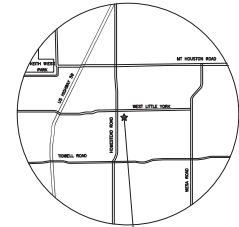
TOTAL AREA WITHIN PROPOSED FENCE: 12.08 ACRES
526,456 G.S.F.

TOTAL CAMPUS AREA: 43.32 ACRES
1,886,792 G.S.F.

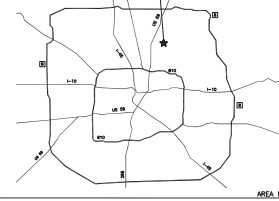
APPLICABLE CODES:

BUILDING CODE: 2012 IRC WITH HOUSTON AMENDMENTS
ELECTRIC CODE: 2017 NATIONAL ELECTRICAL CODE
FIRE CODE: 2012 IRC WITH HOUSTON AMENDMENTS
ACCESSIBILITY: 2012 TEXAS ACCESSIBILITY STANDARDS
SIGN CODE: CCM SIGN CODE

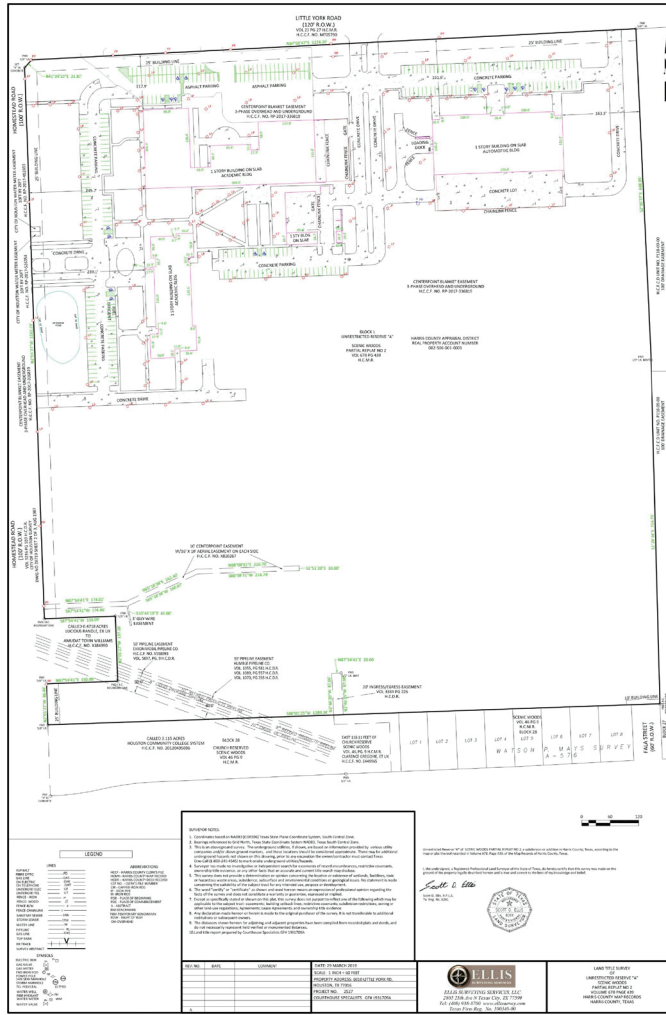
GOVERNING GUIDELINES:
HOUSTON COMMUNITY COLLEGE (HCC) DESIGN STANDARDS



VICINITY MAP



AREA MAP



REVISIONS

NO.	DATE	DESCRIPTION
1	04/18/2020	ISSUED FOR PERMIT
2	04/18/2020	ISSUED FOR PERMIT
3	04/18/2020	ISSUED FOR PERMIT
4	04/18/2020	ISSUED FOR PERMIT
5	04/18/2020	ISSUED FOR PERMIT
6	04/18/2020	ISSUED FOR PERMIT
7	04/18/2020	ISSUED FOR PERMIT
8	04/18/2020	ISSUED FOR PERMIT
9	04/18/2020	ISSUED FOR PERMIT
10	04/18/2020	ISSUED FOR PERMIT

LEGEND

SYMBOL	DESCRIPTION
---	PROPOSED PERIMETER FENCE
---	EXISTING PERIMETER FENCE
---	PROPOSED STORM DRAINAGE IMPROVEMENTS
---	EXISTING STORM DRAINAGE
---	PROPOSED DRIVEWAYS
---	EXISTING DRIVEWAYS
---	PROPOSED SIDEWALKS
---	EXISTING SIDEWALKS
---	PROPOSED BIKEWAYS
---	EXISTING BIKEWAYS
---	PROPOSED UTILITY LOCATIONS
---	EXISTING UTILITY LOCATIONS
---	PROPOSED LANDSCAPING
---	EXISTING LANDSCAPING
---	PROPOSED PAVING
---	EXISTING PAVING
---	PROPOSED CONCRETE
---	EXISTING CONCRETE
---	PROPOSED METAL DECKING
---	EXISTING METAL DECKING
---	PROPOSED ROOFING
---	EXISTING ROOFING
---	PROPOSED EXTERIOR FINISHES
---	EXISTING EXTERIOR FINISHES
---	PROPOSED INTERIOR FINISHES
---	EXISTING INTERIOR FINISHES
---	PROPOSED MECHANICAL
---	EXISTING MECHANICAL
---	PROPOSED ELECTRICAL
---	EXISTING ELECTRICAL
---	PROPOSED PLUMBING
---	EXISTING PLUMBING
---	PROPOSED HVAC
---	EXISTING HVAC
---	PROPOSED INSULATION
---	EXISTING INSULATION
---	PROPOSED GLAZING
---	EXISTING GLAZING
---	PROPOSED MASONRY
---	EXISTING MASONRY
---	PROPOSED WOODWORK
---	EXISTING WOODWORK
---	PROPOSED PAINT
---	EXISTING PAINT
---	PROPOSED FINISHES
---	EXISTING FINISHES
---	PROPOSED UTILITIES
---	EXISTING UTILITIES
---	PROPOSED EROSION CONTROL
---	EXISTING EROSION CONTROL
---	PROPOSED SLOPE CHANGES
---	EXISTING SLOPE CHANGES
---	PROPOSED DRAINAGE BASINS
---	EXISTING DRAINAGE BASINS
---	PROPOSED RETENTION WALLS
---	EXISTING RETENTION WALLS
---	PROPOSED PAVEMENT MARKINGS
---	EXISTING PAVEMENT MARKINGS
---	PROPOSED SIGNAGE
---	EXISTING SIGNAGE

OWNER'S NOTICE

1. Construction shall be in accordance with the applicable codes, laws, and regulations of the State of Texas, including but not limited to the Texas Building Code, Texas Electrical Code, Texas Fire Code, Texas Accessibility Standards, and Texas Sign Code, as well as the applicable codes, laws, and regulations of the City of Houston, including but not limited to the Houston Building Code, Houston Electrical Code, Houston Fire Code, Houston Accessibility Standards, and Houston Sign Code. The contractor shall be responsible for obtaining all necessary permits from the appropriate authorities.

2. The contractor shall maintain the site in accordance with the applicable codes, laws, and regulations of the State of Texas, including but not limited to the Texas Building Code, Texas Electrical Code, Texas Fire Code, Texas Accessibility Standards, and Texas Sign Code, as well as the applicable codes, laws, and regulations of the City of Houston, including but not limited to the Houston Building Code, Houston Electrical Code, Houston Fire Code, Houston Accessibility Standards, and Houston Sign Code. The contractor shall be responsible for obtaining all necessary permits from the appropriate authorities.

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5. The contractor shall maintain the site in accordance with the applicable codes, laws, and regulations of the State of Texas, including but not limited to the Texas Building Code, Texas Electrical Code, Texas Fire Code, Texas Accessibility Standards, and Texas Sign Code, as well as the applicable codes, laws, and regulations of the City of Houston, including but not limited to the Houston Building Code, Houston Electrical Code, Houston Fire Code, Houston Accessibility Standards, and Houston Sign Code. The contractor shall be responsible for obtaining all necessary permits from the appropriate authorities.

6. The contractor shall maintain the site in accordance with the applicable codes, laws, and regulations of the State of Texas, including but not limited to the Texas Building Code, Texas Electrical Code, Texas Fire Code, Texas Accessibility Standards, and Texas Sign Code, as well as the applicable codes, laws, and regulations of the City of Houston, including but not limited to the Houston Building Code, Houston Electrical Code, Houston Fire Code, Houston Accessibility Standards, and Houston Sign Code. The contractor shall be responsible for obtaining all necessary permits from the appropriate authorities.

7. The contractor shall maintain the site in accordance with the applicable codes, laws, and regulations of the State of Texas, including but not limited to the Texas Building Code, Texas Electrical Code, Texas Fire Code, Texas Accessibility Standards, and Texas Sign Code, as well as the applicable codes, laws, and regulations of the City of Houston, including but not limited to the Houston Building Code, Houston Electrical Code, Houston Fire Code, Houston Accessibility Standards, and Houston Sign Code. The contractor shall be responsible for obtaining all necessary permits from the appropriate authorities.

8. The contractor shall maintain the site in accordance with the applicable codes, laws, and regulations of the State of Texas, including but not limited to the Texas Building Code, Texas Electrical Code, Texas Fire Code, Texas Accessibility Standards, and Texas Sign Code, as well as the applicable codes, laws, and regulations of the City of Houston, including but not limited to the Houston Building Code, Houston Electrical Code, Houston Fire Code, Houston Accessibility Standards, and Houston Sign Code. The contractor shall be responsible for obtaining all necessary permits from the appropriate authorities.

9. The contractor shall maintain the site in accordance with the applicable codes, laws, and regulations of the State of Texas, including but not limited to the Texas Building Code, Texas Electrical Code, Texas Fire Code, Texas Accessibility Standards, and Texas Sign Code, as well as the applicable codes, laws, and regulations of the City of Houston, including but not limited to the Houston Building Code, Houston Electrical Code, Houston Fire Code, Houston Accessibility Standards, and Houston Sign Code. The contractor shall be responsible for obtaining all necessary permits from the appropriate authorities.

10. The contractor shall maintain the site in accordance with the applicable codes, laws, and regulations of the State of Texas, including but not limited to the Texas Building Code, Texas Electrical Code, Texas Fire Code, Texas Accessibility Standards, and Texas Sign Code, as well as the applicable codes, laws, and regulations of the City of Houston, including but not limited to the Houston Building Code, Houston Electrical Code, Houston Fire Code, Houston Accessibility Standards, and Houston Sign Code. The contractor shall be responsible for obtaining all necessary permits from the appropriate authorities.

SEAL

LAND TITLE SURVEY

UNPUBLISHED SURVEY OF
SECTION 32, T17N, R10E, S1E
COUNTY OF HARRIS, TEXAS
PREPARED BY ELLIS & ASSOCIATES, P.C.
DATE: 04/18/2020

HCC
HOUSTON COMMUNITY COLLEGE
1100 WEST STREET
HOUSTON, TEXAS 77002
[713] 718-7495

PGAL
3111 BRIDGEMAN
SUITE 201
HOUSTON, TEXAS 77042
[713] 822-3444
[713] 822-3444

PGAL TRAFFIC REG. NO. 1474740
COM.LAN.

PROJECT INFO

PROJECT: HCC HOMESTEAD COLLEGE
NEW PERIMETER FENCE
PERIMETER FENCE

PROJECT NUMBER

100047

PROJECT LOCATION

6010 LITTLE YORK ROAD
HOUSTON, TEXAS 77016

SHEET NUMBER

JANUARY 18, 2020
100047-01

DESIGNED BY

ELLIS & ASSOCIATES, P.C.

CHECKED BY

ELLIS & ASSOCIATES, P.C.

DATE

04/18/2020

SCALE

AS SHOWN

PROJECT #

100047-01

GO.01

SECTION 315000 - EXCAVATION SUPPORT AND PROTECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS
DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.2 SUMMARY

A. SECTION INCLUDES TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEMS.

B. RELATED REQUIREMENTS:

- 1. SECTION 013233 "PHOTOGRAPHIC DOCUMENTATION" FOR RECORDING PREEXISTING CONDITIONS AND EXCAVATION SUPPORT AND PROTECTION SYSTEM PERFORMANCE.
2. SECTION 312000 "EARTH MOVING" FOR EXCAVATING AND BACKFILLING AND FOR CONTROLLING SURFACE-WATER RUNOFF AND POONDING.
3. SECTION 312319 "Dewatering" FOR DEWATERING EXCAVATIONS.

1.3 PRE-INSTALLATION MEETINGS

- A. PRE-INSTALLATION CONFERENCE: CONDUCT CONFERENCE AT PROJECT SITE.
1. REVIEW GEOTECHNICAL REPORT.
2. REVIEW EXISTING UTILITIES AND SUBSURFACE CONDITIONS.
3. REVIEW COORDINATION FOR INTERRUPTION, SHUTOFF, CAPPING, AND CONTINUATION OF UTILITY SERVICES.
4. REVIEW PROPOSED EXCAVATIONS.
5. REVIEW PROPOSED EQUIPMENT.
6. REVIEW MONITORING OF EXCAVATION SUPPORT AND PROTECTION SYSTEM.
7. REVIEW COORDINATION WITH WATERPROOFING.
8. REVIEW ABANDONMENT OR REMOVAL OF EXCAVATION SUPPORT AND PROTECTION SYSTEM.

1.4 ACTION SUBMITTALS

- A. PRODUCT DATA, FOR EACH TYPE OF PRODUCT.
1. INCLUDE CONSTRUCTION DETAILS, MATERIAL DESCRIPTIONS, PERFORMANCE PROPERTIES, AND DIMENSIONS OF INDIVIDUAL COMPONENTS AND PROFILES, AND CALCULATIONS FOR EXCAVATION SUPPORT AND PROTECTION SYSTEM.
B. SHOP DRAWINGS, FOR EXCAVATION SUPPORT AND PROTECTION SYSTEM, PREPARED BY OR UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL ENGINEER.
1. INCLUDE PLANS, ELEVATIONS, SECTIONS, AND DETAILS.
2. SHOW ARRANGEMENT, LOCATIONS, AND DETAILS OF SOLDIER PILES, PILING, LAGGING, TIEBACKS, BRACING, AND OTHER COMPONENTS OF EXCAVATION SUPPORT AND PROTECTION SYSTEM ACCORDING TO ENGINEERING DESIGN.
3. INDICATE TYPE AND LOCATION OF WATERPROOFING.
4. INCLUDE A WRITTEN PLAN FOR EXCAVATION SUPPORT AND PROTECTION, INCLUDING SEQUENCE OF CONSTRUCTION OF SUPPORT AND PROTECTION COORDINATED WITH PROGRESS OF EXCAVATION.

1.5 INFORMATIONAL SUBMITTALS

- A. QUALIFICATION DATA: FOR PROFESSIONAL ENGINEER.
B. CONTRACTOR CALCULATIONS: FOR EXCAVATION SUPPORT AND PROTECTION SYSTEM. INCLUDE ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.
C. EXISTING CONDITIONS: OBTAIN PHOTOGRAPHS SHOW EXISTING CONDITIONS OF ADJACENT CONSTRUCTION AND SITE IMPROVEMENTS THAT MAY BE MISCONSTRUED AS DAMAGE CAUSED BY INADEQUATE PERFORMANCE OF EXCAVATION SUPPORT AND PROTECTION SYSTEMS. SUBMIT BEFORE WORK BEGINS.
D. RECORD DRAWINGS: IDENTIFY LOCATIONS AND DEPTHS OF CAPPED UTILITIES, ABANDONED-IN-PLACE SUPPORT AND PROTECTION SYSTEMS, AND OTHER SUBSURFACE STRUCTURAL, ELECTRICAL, OR MECHANICAL CONDITIONS.

1.6 FIELD CONDITIONS

- A. INTERRUPTION OF EXISTING UTILITIES: DO NOT INTERRUPT ANY UTILITY SERVING FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY UTILITY ACCORDING TO REQUIREMENTS INDICATED.
1. NOTIFY ARCHITECT NO FEWER THAN TWO DAYS IN ADVANCE OF PROPOSED INTERRUPTION OF UTILITY.
2. DO NOT PROCEED WITH INTERRUPTION OF UTILITY WITHOUT ARCHITECT'S WRITTEN PERMISSION.
B. PROJECT-SITE INFORMATION: A GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THIS PROJECT AND IS AVAILABLE FOR INFORMATION ONLY. THE OPINIONS EXPRESSED IN THIS REPORT ARE THOSE OF A GEOTECHNICAL ENGINEER AND REPRESENT INTERPRETATIONS OF SURFACE CONDITIONS, TESTS, AND RESULTS OF ANALYSES CONDUCTED BY A GEOTECHNICAL ENGINEER. OWNER IS NOT RESPONSIBLE FOR INTERPRETATIONS OR CONCLUSIONS DRAWN FROM THE DATA.
1. MAKE ADDITIONAL TEST BORINGS AND CONDUCT OTHER EXPLORATORY OPERATIONS NECESSARY FOR EXCAVATION SUPPORT AND PROTECTION ACCORDING TO THE PERFORMANCE REQUIREMENTS.
2. THE GEOTECHNICAL REPORT IS INCLUDED ELSEWHERE IN PROJECT MANUAL.
C. SURVEY WORK: ENGAGE A QUALIFIED LAND SURVEYOR OR PROFESSIONAL ENGINEER TO SURVEY ADJACENT EXISTING BUILDINGS, STRUCTURES, AND SITE IMPROVEMENTS. ESTABLISH EXACT ELEVATIONS AT FIXED POINTS TO ACT AS BENCHMARKS. CLEARLY IDENTIFY BENCHMARKS AND RECORD EXISTING ELEVATIONS.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. PROVIDE DESIGN, MONITOR, AND MAINTAIN EXCAVATION SUPPORT AND PROTECTION SYSTEM CAPABLE OF SUPPORTING EXCAVATION SIDEWALLS AND OF RESISTING EARTH AND HYDROSTATIC PRESSURES AND SUPERIMPOSED AND CONSTRUCTION LOADS.
1. CONTRACTOR DESIGN: DESIGN EXCAVATION SUPPORT AND PROTECTION SYSTEM, INCLUDING COMPREHENSIVE ENGINEERING ANALYSIS BY A QUALIFIED PROFESSIONAL ENGINEER.
2. PREVENT SURFACE WATER FROM ENTERING EXCAVATIONS BY GRADING, DIKES, OR OTHER MEANS.
3. INSTALL EXCAVATION SUPPORT AND PROTECTION SYSTEMS WITHOUT DAMAGING EXISTING BUILDINGS, STRUCTURES, AND SITE IMPROVEMENTS ADJACENT TO EXCAVATION.
4. CONTINUOUSLY MONITOR VIBRATIONS, SETTLEMENTS, AND MOVEMENTS TO ENSURE STABILITY OF EXCAVATIONS AND ADJACENT STRUCTURES AND TO ENSURE THAT DAMAGE TO PERMANENT STRUCTURES IS PREVENTED.

2.2 MATERIALS

- A. GENERAL: PROVIDE MATERIALS THAT ARE EITHER NEW OR IN SERVICEABLE CONDITION.
B. STRUCTURAL STEEL: ASTM A 36/A 36M, ASTM A 600/A 600M, OR ASTM A 992/A 992M.
C. STEEL SHEET PILING: ASTM A 528/A 528M, ASTM A 572/A 572M, OR ASTM A 609/A 609M, WITH CONTINUOUS INTERLOCKS.
1. CORNERS: SITE-FABRICATED MECHANICAL INTERLOCK OR ROLL-FORMED CORNER SHAPE WITH CONTINUOUS INTERLOCK.
D. WOOD LAGGING: LUMBER, MIXED HARDWOOD, NOMINAL THICKNESS OF SIZE AND STRENGTH REQUIRED FOR APPLICATION.
E. SHOTCRETE: PORTLAND CEMENT-SUPPORTED "SHOTCRETE" FOR SHOTCRETE MATERIALS AND MIXES, REINFORCEMENT, AND SHOTCRETE APPLICATION.
F. CAST-IN-PLACE CONCRETE: AC 301, OF COMPRESSIVE STRENGTH REQUIRED FOR APPLICATION.
G. REINFORCING BARS: ASTM A 615/A 615M, GRADE 60 (GRADE 420), DEFORMED.
H. TIEBACKS: STEEL BARS, ASTM A 722/A 722M.
I. TIEBACKS: STEEL STRAND, ASTM A 416/A 416M.

PART 3 - EXECUTION

3.1 PREPARATION

- A. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNLOADING, WASHOUT, AND OTHER HAZARDS THAT COULD DEVELOP DURING EXCAVATION SUPPORT AND PROTECTION SYSTEM OPERATION.
1. SHORE, SUPPORT, AND PROTECT UTILITIES ENCOUNTERED.
B. INSTALL EXCAVATION SUPPORT AND PROTECTION SYSTEMS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
1. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY AUTHORITIES HAVING JURISDICTION.
C. LOCATE EXCAVATION SUPPORT AND PROTECTION SYSTEMS CLEAR OF PERMANENT CONSTRUCTION SO THAT CONSTRUCTION AND FINISHING OF OTHER WORK IS NOT IMPEDED.
3.2 SOLDIER PILES AND LAGGING
A. INSTALL STEEL SOLDIER PILES BEFORE STARTING EXCAVATION. EXTEND SOLDIER PILES BELOW EXCAVATION GRADE LEVEL TO DEPTHS ACCURATE TO PREVENT LATERAL MOVEMENT. SPACE SOLDIER PILES AT REGULAR INTERVALS NOT TO EXCEED ALLOWABLE FLEXURAL STIFFNESS OF WOOD LAGGING. ACCURATELY ALIGN EXPOSED FACES OF FLANGES TO WITH NOT MORE THAN 2 INCHES (50 MM) FROM A HORIZONTAL LINE AND NOT MORE THAN 1/120 OUT OF VERTICAL ALIGNMENT.
B. INSTALL WOOD LAGGING WITHIN FLANGES OF SOLDIER PILES AS EXCAVATION PROGRESSES. TRIM EXCAVATION AS REQUIRED TO INSTALL LAGGING. FILL VOIDS BEHIND LAGGING WITH SOIL AND COMPACT.
C. INSTALL WALES HORIZONTALLY AT LOCATIONS INDICATED ON DRAWINGS AND SECURE TO SOLDIER PILES.
3.3 SHEET PILING
A. BEFORE STARTING EXCAVATION, INSTALL ONE-PIECE SHEET PILING LENGTHS AND THOROUGHLY INTERLOCK VERTICAL EDGES TO FORM A CONTINUOUS BARRIER.
B. ACCURATELY PLACE THE PILING, USING TEMPORARY AND GUIDE FRAMES UNLESS OTHERWISE RECOMMENDED IN WRITING BY THE SHEET PILING MANUFACTURER. LIMIT VERTICAL OFFSET OF ADJACENT SHEET PILING TO 40 INCHES (1000 MM), ACCURATELY ALIGN EXPOSED FACES OF SHEET PILING. OFFSET MAY NOT MORE THAN 2 INCHES (50 MM) FROM A HORIZONTAL LINE AND NOT MORE THAN 1/120 OUT OF VERTICAL ALIGNMENT.
C. CUT TOPS OF SHEET PILING TO UNIFORM ELEVATION AT TOP OF EXCAVATION.

3.4 TIEBACKS

- MOST TIEBACK SYSTEMS ARE PROPRIETARY. INSERT MATERIAL REQUIREMENTS IN PART 2 IF A PARTICULAR TIEBACK IS REQUIRED. IF TIEBACKS ARE PERMANENT, CONSIDER PROVIDING CORROSION PROTECTION OF TIEBACKS AND ANCHORAGE CONNECTIONS.
A. SMALL METALLIC DRILLS AND TENSION TIEBACKS.
B. TEST LOAD-CARRYING CAPACITY OF EACH TIEBACK AND REPLACE AND RESET DEFICIENT TIEBACKS.
1. MAKE TEST LOADS OBSERVED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR DESIGN OF EXCAVATION SUPPORT AND PROTECTION SYSTEM.
C. MAINTAIN TIEBACKS IN PLACE UNTIL PERMANENT CONSTRUCTION IS ABLE TO WITHSTAND LATERAL EARTH AND HYDROSTATIC PRESSURES.

3.5 BRACING

- BRACING OF WALES MAY BE REQUIRED FOR SOLDIER PILES AND LAGGING SYSTEMS AND FOR SHEET PILING.
A. BRACING: LOCATE BRACING TO CLEAR COLUMN, FLOOR FRAMING CONSTRUCTION, AND OTHER PERMANENT WORK. IF NECESSARY TO MOVE BRACE, INSTALL NEW BRACING BEFORE REMOVING ORIGINAL BRACE.
1. DO NOT PLACE BRACING WHERE IT WILL BE CAST INTO OR INCLUDED IN PERMANENT CONCRETE WORK UNLESS OTHERWISE APPROVED BY ARCHITECT.
2. INSTALL INTERNAL BRACING IF REQUIRED TO PREVENT SPREADING OR DISTORTION OF BRACED FRAMES.
3. MAINTAIN BRACING UNTIL STRUCTURAL ELEMENTS ARE SUPPORTED BY OTHER BRACING OR UNTIL PERMANENT CONSTRUCTION IS ABLE TO WITHSTAND LATERAL EARTH AND HYDROSTATIC PRESSURES.

3.6 FIELD QUALITY CONTROL

- A. SURVEY-WORK BENCHMARKS: RESURVEY BENCHMARKS REGULARLY DURING INSTALLATION OF EXCAVATION SUPPORT AND PROTECTION SYSTEMS, EXCAVATION PROGRESS, AND FOR AS LONG AS EXCAVATION REMAINS OPEN. MAINTAIN AN ACCURATE LOG OF SURVEYED ELEVATIONS AND POSITIONS FOR COMPARISON WITH ORIGINAL ELEVATIONS AND POSITIONS. PROMPTLY NOTIFY ARCHITECT IF CHANGES IN ELEVATIONS OR POSITIONS OCCUR OR IF CRACKS, DIKS, OR OTHER DAMAGE IS EVIDENT IN ADJACENT CONSTRUCTION.
B. PROMPTLY CORRECT DETECTED BULGES, BEAKAGE, OR OTHER EVIDENCE OF MOVEMENT TO ENSURE THAT EXCAVATION SUPPORT AND PROTECTION SYSTEM REMAINS STABLE.
C. PROMPTLY REPAIR DAMAGES TO ADJACENT FACILITIES CAUSED BY INSTALLATION OR FAULTY PERFORMANCE OF EXCAVATION SUPPORT AND PROTECTION SYSTEMS.

3.7 REMOVAL AND REPAIRS

- A. REMOVE EXCAVATION SUPPORT AND PROTECTION SYSTEMS WHEN CONSTRUCTION HAS PROCEEDED SUFFICIENTLY TO SUPPORT EXCAVATION AND EARTH AND HYDROSTATIC PRESSURES. REMOVE IN STAGES TO AVOID DISTURBING UNDERLYING SOILS AND ROCK OR DAMAGING STRUCTURES, PAVEMENTS, FACILITIES, AND UTILITIES.
1. REMOVE EXCAVATION SUPPORT AND PROTECTION SYSTEMS TO A MINIMUM DEPTH OF 48 INCHES (1200 MM) BELOW OVERLYING CONSTRUCTION AND REMAIN REMOVED.
2. FILL VOIDS IMMEDIATELY WITH APPROVED BACKFILL COMPACTED TO DENSITY SPECIFIED IN SECTION 312000 "EARTH MOVING."
3. REPAIR OR REPLACE, AS APPROVED BY ARCHITECT, ADJACENT WORK DAMAGED OR DISPLACED BY REMOVING EXCAVATION SUPPORT AND PROTECTION SYSTEMS.
B. LEAVE EXCAVATION SUPPORT AND PROTECTION SYSTEMS PERMANENTLY IN PLACE.

END OF SECTION 315000

FILED AT: 10:00AM, 10/20/2020, HOUSTON COUNTY COLLEGE, PROJECT: CAMPUS IMPROVEMENTS AND RELOCATION, 315000 EXCAVATION SUPPORT AND PROTECTION, SPECIFICATIONS - 1/20/2020

HCC HOUSTON COUNTY COLLEGE
HOUSTON COUNTY COLLEGE
3100 MARKET STREET
HOUSTON, TX 77002
(713) 746-0000
(713) 746-8555
JAS@HCC.edu

PGAL
3113 BRIMFORTH DRIVE
SUITE 300
HOUSTON, TX 77042
(713) 822-1644
(713) 888-8855
www.pgal.com
PGAL TYPE REG. NO. F4742

PROJECT NAME
HCC-NORTHEAST COLLEGE
NORTH FOREST CAMPUS
PERIMETER FENCE
PROJECT LOCATION
6102 LITTLE YORK ROAD
HOUSTON, TEXAS 77016

DATE OF ISSUE
JANUARY 28, 2020
REVISIONS/DESCRIPTIONS

Table with columns for Date, Description, and Author/Checked. Includes a signature for J. Ramirez dated 01-28-2020.

SCALE/TITLE
CONTRACTOR'S COPY © 2020

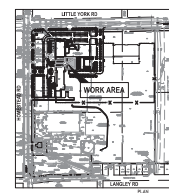
PROJECT NUMBER
1002047
SHEET TITLE
EXCAVATION SUPPORT AND PROTECTION SPECIFICATIONS
S2000

SHEET NUMBER
C1.30

1. ALL DIMENSIONS AND COORDINATES ARE TO FACE OF CURB OR OUTSIDE OF BUILDING FACE UNLESS NOTED OTHERWISE.
2. REFER TO SHEET C1.00 - OVERALL SITE PLAN PREPARED BY PKM, DATED 07/15/2019 FOR RECORD DRAWING.
3. ALL DISTURBED GRASS AND NON-PAVED AREAS NOT INDICATED FOR IMPROVEMENTS BY LANDSCAPING PLANS ARE TO BE STABILIZED AND RESTORED WITH 4" MINIMUM TOPSOIL AND SEEDING AS INDICATED TO MATCH FINISH GRADES FOR GRADING PLAN.
4. REFER TO ARCHITECTURAL PLANS FOR SPECIAL PAVING FINISH MATERIALS AND DETAILS.
5. REFER TO PROJECT SPECIFICATIONS FOR ALL MINIMUM AND ADDITIONAL REQUIREMENTS.

- ① PROP FENCE AND GATE, RE: ARCHITECTURAL
- ② REGRADE EXIST VEGETATED AREA TO DRAIN TOWARDS INLET AND HYDROSEED.

- REGRADING AREA
 SHEET FLOW DIRECTION
 PROP STORM INLET
 PROP STORM SEWER LINE



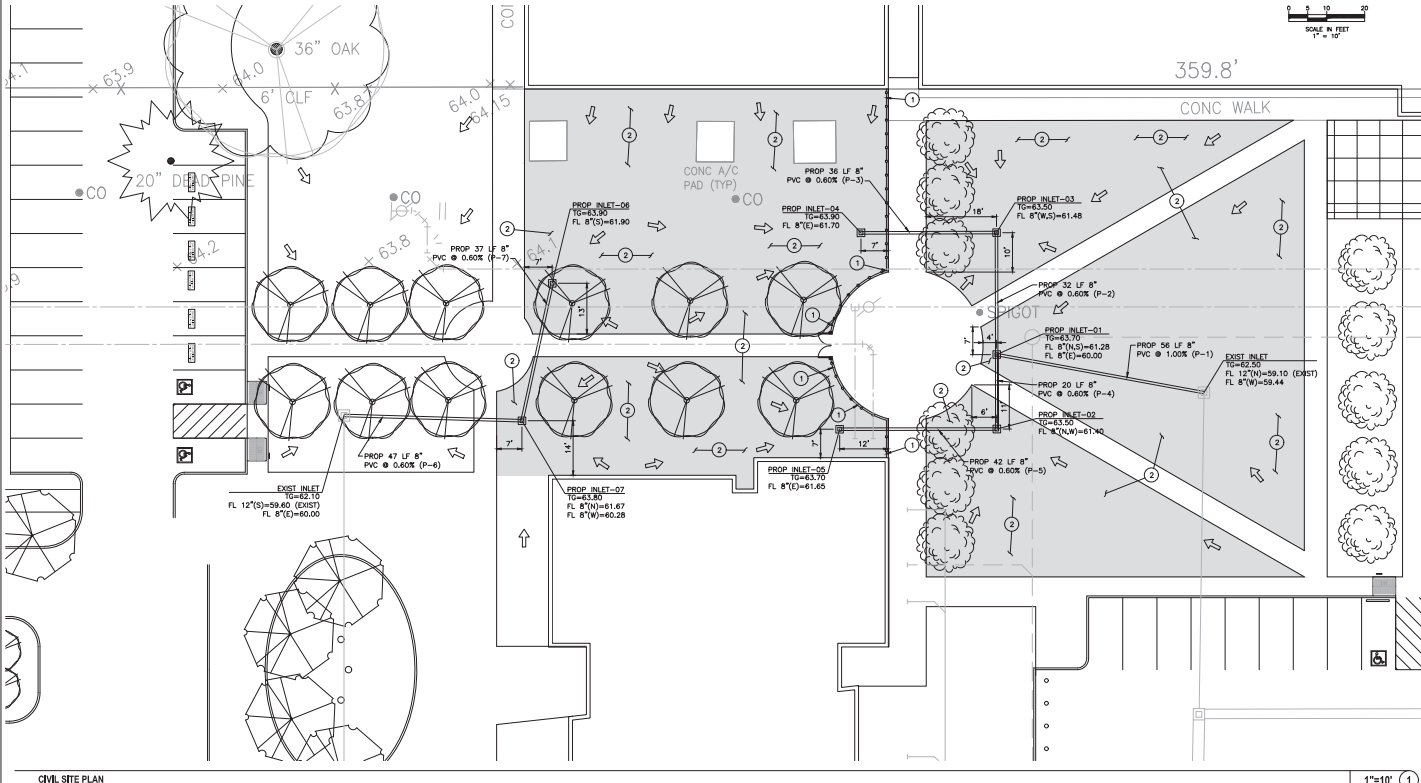
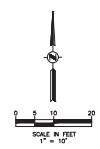
REMARKS:
 1. FILL OR REMOVE EXISTING GRASS AND WEEDS TO BE RESTORED WITH 4" MINIMUM TOPSOIL AND SEEDING AS INDICATED TO MATCH FINISH GRADES FOR GRADING PLAN.
 2. ALL DISTURBED GRASS AND NON-PAVED AREAS NOT INDICATED FOR IMPROVEMENTS BY LANDSCAPING PLANS ARE TO BE STABILIZED AND RESTORED WITH 4" MINIMUM TOPSOIL AND SEEDING AS INDICATED TO MATCH FINISH GRADES FOR GRADING PLAN.
 3. ALL DIMENSIONS AND COORDINATES ARE TO FACE OF CURB OR OUTSIDE OF BUILDING FACE UNLESS NOTED OTHERWISE.
 4. REFER TO SHEET C1.00 - OVERALL SITE PLAN PREPARED BY PKM, DATED 07/15/2019 FOR RECORD DRAWING.
 5. REFER TO ARCHITECTURAL PLANS FOR SPECIAL PAVING FINISH MATERIALS AND DETAILS.
 6. REFER TO PROJECT SPECIFICATIONS FOR ALL MINIMUM AND ADDITIONAL REQUIREMENTS.
 7. ALL DIMENSIONS AND COORDINATES ARE TO FACE OF CURB OR OUTSIDE OF BUILDING FACE UNLESS NOTED OTHERWISE.



GENERAL NOTES

KEY NOTES

LEGEND



CIVIL SITE PLAN

1"=10' ①

3131 BRIMSTONE DRIVE
 SUITE 202
 HOUSTON, TX 77042
 (713) 852-1444
 (713) 898-8633
 www.pgl.com
 PG&L TYPE REG. NO. F4742
 CONTRACT

PROJECT NAME
 HCC-NORTHST COLLEGE
 NORTH FOREST CAMPUS
 PERIMETER FENCE

PROJECT LOCATION
 6010 LITTLE YORK ROAD
 HOUSTON, TEXAS 77016

DATE OF WORK
 JANUARY 28, 2020

REVISIONS

NO.	DESCRIPTION	DATE



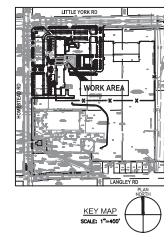
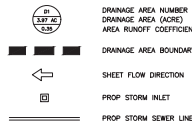
PROJECT NUMBER
 1002047

SHEET TITLE
 C.M. SITE PLAN

SHEET NUMBER
 C2.10

Area No.	Area, ac	Runoff Coefficient	Tc, min	Rainfall Intensity, in/hr	2-yr Runoff, cfs
A1	0.220	0.50	22.66	3.58	0.39
A2	0.080	0.50	21.41	3.68	0.16
A3	0.090	0.50	21.54	3.66	0.16
A4	0.110	0.50	21.78	3.65	0.20
A5	0.020	0.50	20.90	3.72	0.09
A6	0.040	0.50	20.67	3.74	0.07
A7	0.040	0.50	20.67	3.74	0.07
A8	0.140	0.50	22.07	3.62	0.25

Pipe No.	Area, ac	Runoff Coefficient	Tc, min	Rainfall Intensity, in/hr	Material	Slope, %	Pipe Size, in	Velocity, ft/s	Capacity, cfs	2-yr Runoff, cfs
P1	0.550	0.50	24.00	3.48	0.011	1.000	8.00	4.10	1.43	0.96
P2	0.200	0.50	22.53	3.59	0.011	0.600	8.00	3.18	1.11	0.36
P3	0.110	0.50	21.78	3.65	0.011	0.600	8.00	3.18	1.11	0.20
P4	0.130	0.50	21.98	3.63	0.011	0.600	8.00	3.18	1.11	0.24
P5	0.060	0.50	20.90	3.72	0.011	0.600	8.00	3.18	1.11	0.09
P6	0.080	0.50	21.41	3.68	0.011	0.600	8.00	3.18	1.11	0.15
P7	0.040	0.50	20.67	3.74	0.011	0.600	8.00	3.18	1.11	0.07

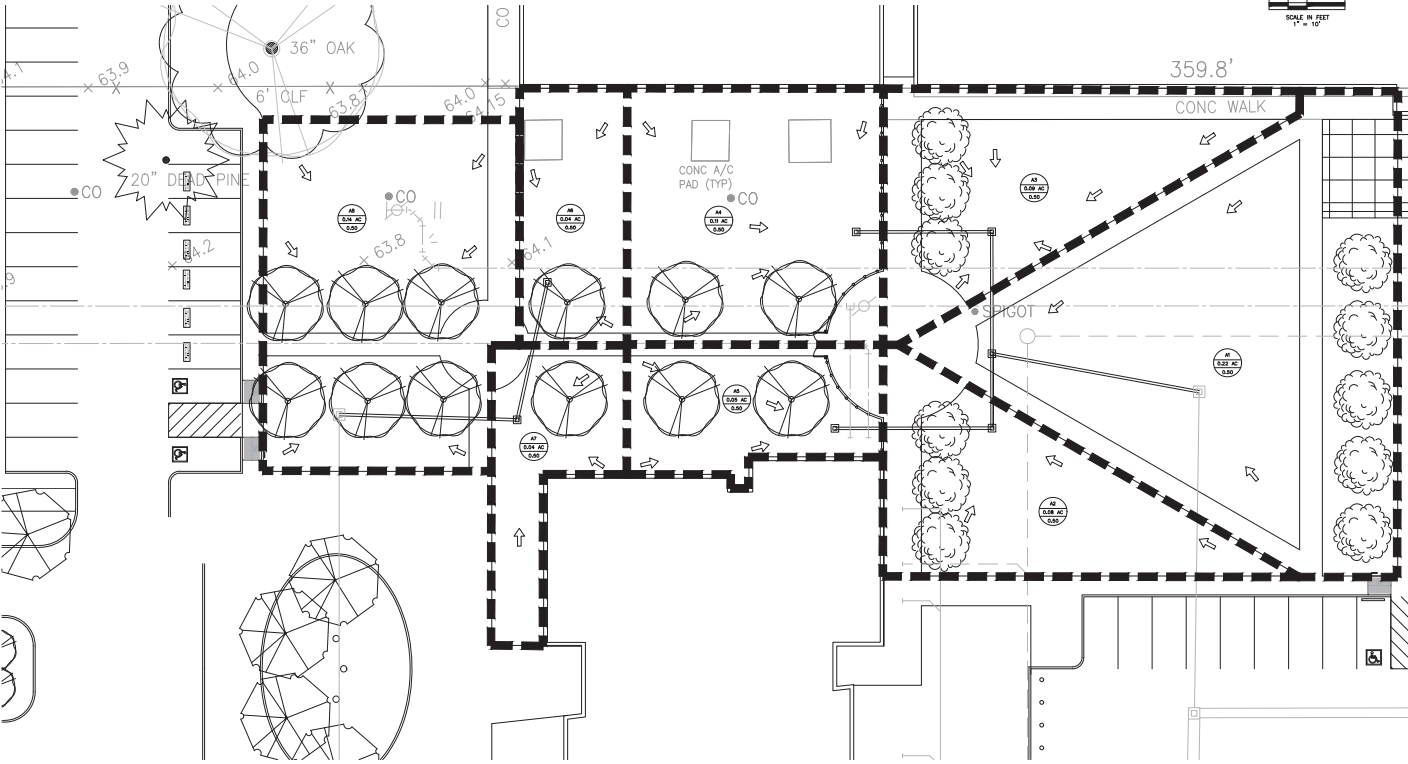


REMARKS:
 1. ALL DRAINAGE AREAS ARE TO BE CONFORMED TO THE LATEST EDITION OF THE DRAINAGE AREA RUNOFF COEFFICIENTS AND TIME OF CONCENTRATION TABLES, AS APPLICABLE.
 2. ALL DRAINAGE AREAS ARE TO BE CONFORMED TO THE LATEST EDITION OF THE DRAINAGE AREA RUNOFF COEFFICIENTS AND TIME OF CONCENTRATION TABLES, AS APPLICABLE.
 3. ALL DRAINAGE AREAS ARE TO BE CONFORMED TO THE LATEST EDITION OF THE DRAINAGE AREA RUNOFF COEFFICIENTS AND TIME OF CONCENTRATION TABLES, AS APPLICABLE.

CALCULATION FOR DRAINAGE AREA 2

CALCULATION FOR PIPE CAPACITY 3

LEGEND 4



DRAINAGE AREA MAP

1"=10' 1



3103 BRUNSWICK DRIVE
 SUITE 205
 HOUSTON, TX 77042
 (713) 862-1444
 (713) 862-1444
 www.pgall.com
 PGAL TYPE REG. NO. F4742
 CDD/04/0001

PROJECT NAME
 HCC/NORTHEAST COLLEGE
 NORTH FOREST CAMPUS
 PERIMETER FENCE

PROJECT LOCATION
 6010 LITTLE YORK ROAD
 HOUSTON, TEXAS 77016

DATE OF ISSUE
 JANUARY 28, 2020
 REVISIONS/DESCRIPTIONS

NO.	DATE	DESCRIPTION

SCALE 1"=10'
 1"=10'



PROJECT NUMBER
 1002047

SHEET TITLE
 DRAINAGE AREA MAP

SHEET NUMBER
 C3.30

HCC
 HOUSTON COMMUNITY COLLEGE
 3100 MAIN STREET
 HOUSTON, TX 77002
 (713) 784-0000
 (713) 784-0001
 ADDRESS

PG&L

3131 BRIDGEMAN DRIVE
 SUITE 200
 HOUSTON, TX 77042
 (713) 822-1444
 (713) 298-8555
 www.pgandl.com
 PG&L TYPE REG. NO. F4742
 CONSULTANT

PROJECT NAME:
 HCC NORTHEAST COLLEGE
 NORTH FOREST CAMPUS
 PERIMETER FENCE

PROJECT LOCATION:
 6010 LITTLE YORK ROAD
 HOUSTON, TEXAS 77016

DATE OF ISSUE:
 JANUARY 28, 2020
 REVISIONS/DESCRIPTIONS

NO.	REVISION	DATE

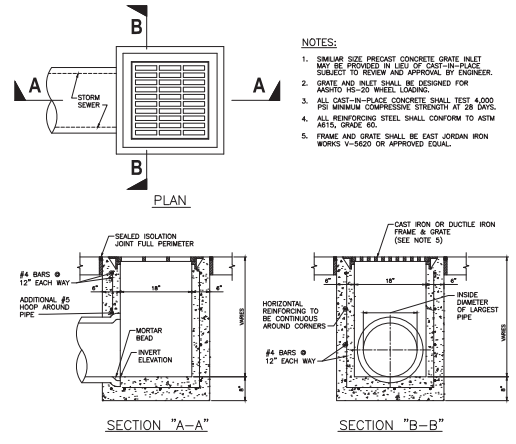
DRAWN BY:
 COMP/ASH/ST © 2020



PROJECT NUMBER:
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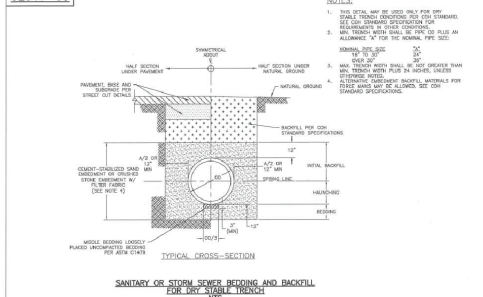
SHEET TITLE:
 STORM DETAILS

SHEET NUMBER:
C7.00

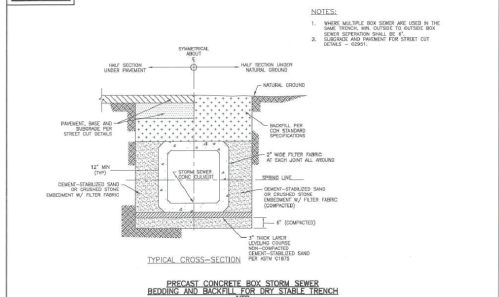


- NOTES:**
- SMALL SIZE PRECAST CONCRETE GRATE INLET MAY BE PROVIDED IN LIEU OF CAST-IN-PLACE SUBJECT TO REVIEW AND APPROVAL BY ENGINEER.
 - GRATE AND INLET SHALL BE DESIGNED FOR ASPECTED HS-CO WHEEL LOADING.
 - ALL CAST-IN-PLACE CONCRETE SHALL TEST 4,000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS.
 - ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
 - FRAME AND GRATE SHALL BE EAST JORDAN IRON WORKS V-5620 OR APPROVED EQUAL.

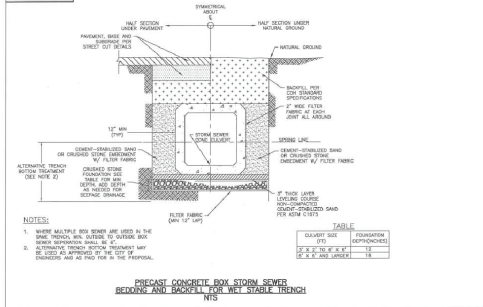
02317-03



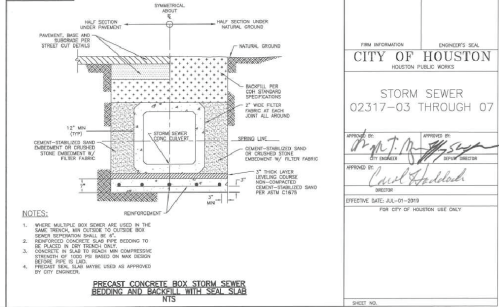
02317-05



02317-06



02317-07



PROJECT NUMBER: 02317-03 THROUGH 07

CITY OF HOUSTON

STORM SEWER

02317-03 THROUGH 07

DESIGNED BY: [Signature]

CHECKED BY: [Signature]

DATE: JANUARY 28, 2020

SCALE: AS SHOWN

PROJECT LOCATION: 6010 LITTLE YORK ROAD, HOUSTON, TEXAS 77066

DATE: JANUARY 28, 2020

SCALE: AS SHOWN

PROJECT NUMBER: 1002047

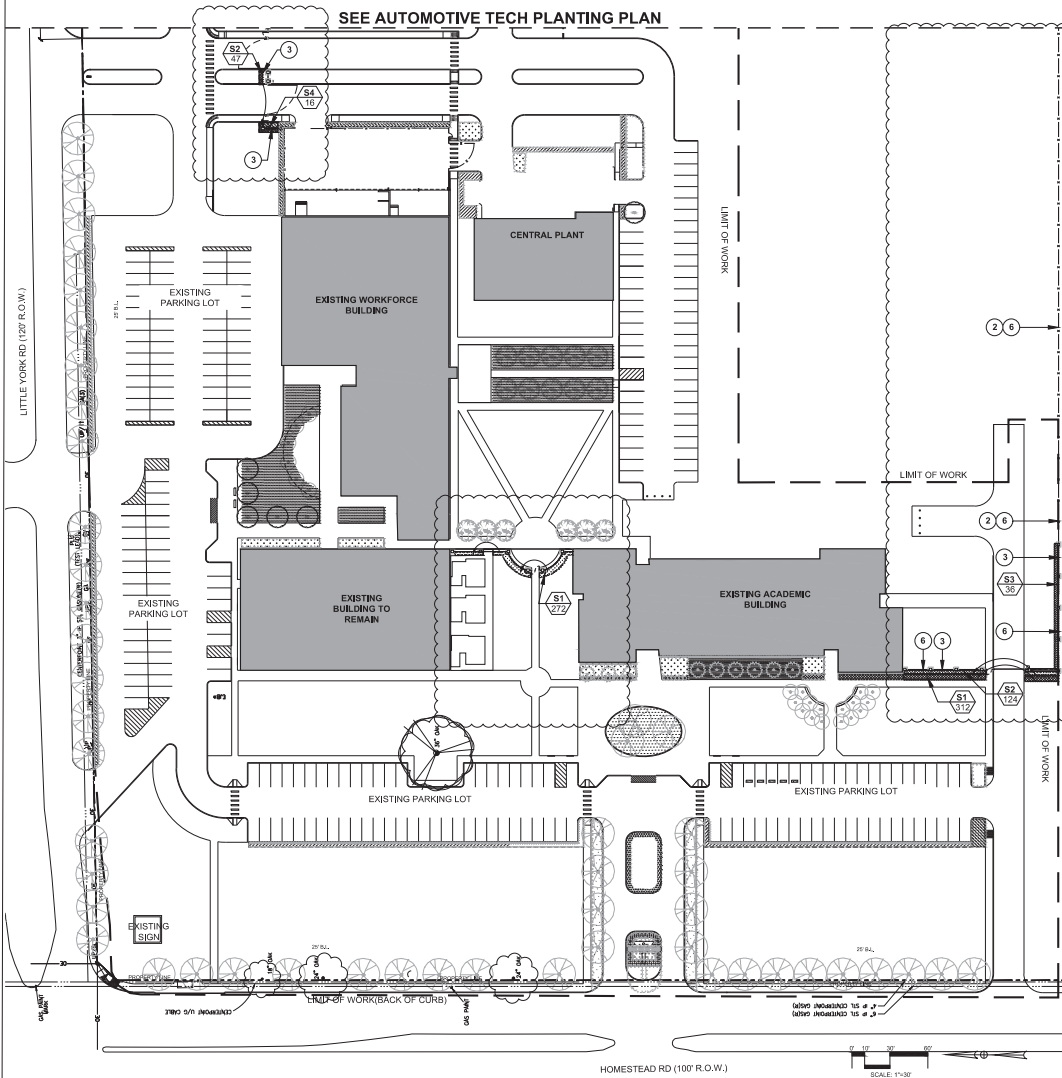
SHEET TITLE: STANDARD DETAILS - STORM

SHEET NUMBER: 1

PROJECT NAME: HCC NORTHEAST COLLEGE NORTH FOREST CAMPUS PERIMETER FENCE

FILED IN: 10/2020 (10/2020) PROJECT: 02317-03 THROUGH 07 PROJECT LOCATION: 6010 LITTLE YORK ROAD, HOUSTON, TEXAS 77066 DATE: JANUARY 28, 2020 11:52 AM

SEE AUTOMOTIVE TECH PLANTING PLAN



- A. CONTRACTOR TO LAYOUT ALL PLANTING BED LIMITS AND LOCATIONS OF ALL PROPOSED TREES BY THE FIELD FOR APPROVAL OF LANDSCAPE ARCHITECT.
- B. TREES SHALL BE PLANTED NO CLOSER THAN 50' AS MEASURED FROM CENTER OF TRUNK FROM ANY PAVEMENT, FENCE, BUILDING, OR OTHER HARDSHIP ITEM.
- C. CONTRACTOR SHALL FINE GRADE ALL LANDSCAPE AREAS.
- D. CONTRACTOR TO PROVIDE MINIMUM 1" OF APPROVED TOPSOIL WORKED INTO EXISTING SOIL FOR ALL AREAS TO RECEIVE HYDROMULCHING AND TOP DRESS ALL AREAS TO RECEIVE SOILS WITH 1" TOP SOIL MIXTURE OR ON SITE SOIL SPOOLS IF APPROVED BY LANDSCAPE ARCHITECT.
- E. CONTRACTOR TO PROVIDE METAL PLANTING BED EDGING FOR ALL AREAS WHERE TURF AREAS ADJOIN PLANTING BEDS.
- F. SEE PLANTING DETAIL SHEET L200 FOR PLANTING LEGEND AND DETAILS.

GENERAL NOTES

- 1. NOT USED.
- 2. CHAIN-LINK FENCE. SEE ARCHITECTURAL DRAWINGS.
- 3. ORNAMENTAL METAL FENCE. SEE ARCHITECTURAL & STRUCTURAL DRAWINGS, (FOR PLASTER DESIGN ONLY).
- 4. NOT USED.
- 5. NOT USED.
- 6. PROVIDE ONE ROW OF 80/18/80D ALONG BOTH SIDES OF ORNAMENTAL FENCE AND CHAIN-LINK FENCE. SOOD TO BE COMMON BERBERGA (VINOXDON DACTYLON).
- 7. NOT USED.

SYMBOL	PLANT NAME	COMMON NAME	BED SPACING	QTY.
	S1 272	ARBOREUS FRUIT TREE	15' x 15'	33
	S1 317	SMALL TREE	15' x 15'	43
	S2 124	SMALL TREE	15' x 15'	36
	S2 125	SMALL TREE	15' x 15'	18

PLANTING LIST

HCC
HARRIS COUNTY COLLEGE

PGAL
PGAL TYPE REG-163-F212

MZL
MZL Associates Inc.

PROJECT FILE
HCC NORTH EAST COLLEGE
NORTH FORK CAMPUS
PARKING FENCE

PROJECT NUMBER
163-163-F212

PROJECT LOCATION
HCC NORTH FORK ROAD
HOUSTON, TX 77060

DATE OF MEAS
JANUARY 28, 2020
PROJECT COMPLETION
CONTINGENT

REGISTRATION
LANDSCAPE PLAN

SCALE: 1"=30'

L101

- A. CONTRACTOR TO LAYOUT ALL PLANTING BED LIMITS AND LOCATIONS OF ALL PROPOSED TREES IN THE FIELD FOR APPROVAL OF LANDSCAPE ARCHITECT.
- B. TREES SHALL BE PLANTED NO CLOSER THAN 50% AS MEASURED FROM CENTER OF TRUNK FROM ANY WALKWAY, FENCE, BUILDING, OR OTHER LANDSCAPE ITEM.
- C. CONTRACTOR SHALL FINE GRADE ALL LANDSCAPE AREAS.
- D. CONTRACTOR TO PROVIDE MINIMUM 1" OF APPROVED TOPSOIL WORKED INTO EXISTING SOIL FOR ALL AREAS TO RECEIVE HYDRONALCING AND TOP DRESS ALL AREAS TO RECEIVE SEEDS WITH 1" TOP SOIL MIXTURE OR ON SITE SOIL, SHOULD BE APPROVED BY LANDSCAPE ARCHITECT.
- E. CONTRACTOR TO PROVIDE METAL PLANTING BED EDGING FOR ALL AREAS WHERE TURF AREAS ADJOIN PLANTING BEDS.
- F. SEE PLANTING DETAIL SHEET L200 FOR PLANTING LEGEND AND DETAILS.

GENERAL NOTES

- 1. CONCRETE SHOW BAND AT ORNAMENTAL FENCE, CONTINUOUS. SEE STRUCTURAL DRAWINGS.
- 2. CHAIN-LINK FENCE. SEE ARCHITECTURAL DRAWINGS.
- 3. ORNAMENTAL METAL FENCE. SEE ARCHITECTURAL & STRUCTURAL DRAWINGS. (FOR PLASTER DESIGN ONLY)
- 4. LOWER SCREEN. SEE ARCHITECTURAL DRAWINGS.
- 5. PLANTING LEGEND. SEE PLANTING DETAIL. ALL SHEET L200.
- 6. PROVIDE ONE ROW OF SOFT SOIL ADJOINING BOTH SIDES OF ORNAMENTAL FENCE AND CHAIN-LINK FENCE. SOIL TO BE COMMON BERBERIS (CYNOODON DACTYLON).

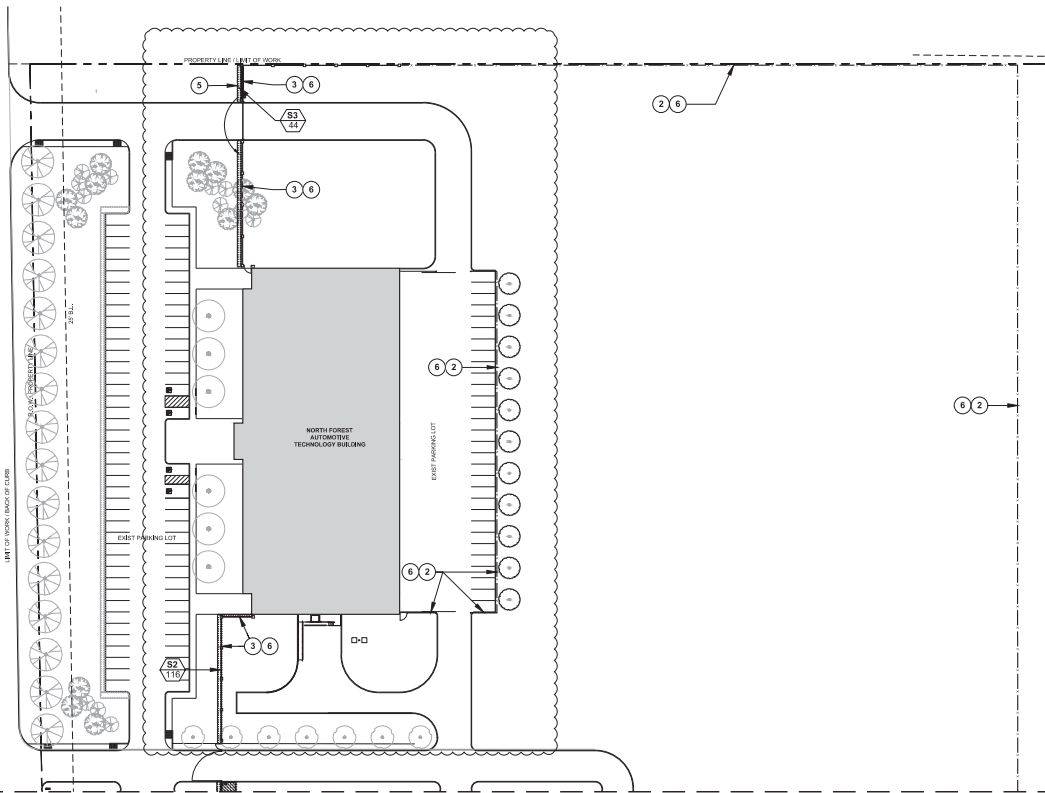
PLAN NOTES

SYMBOL	PLANTING LIST	COMMON NAME	HEIGHT (FEET)	SPACING
○	1	BERBERIS (CYNOODON DACTYLON)	3-4	12" x 12"
○	2	BERBERIS (CYNOODON DACTYLON)	3-4	12" x 12"
○	3	BERBERIS (CYNOODON DACTYLON)	3-4	12" x 12"
○	4	BERBERIS (CYNOODON DACTYLON)	3-4	12" x 12"

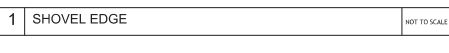
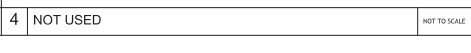
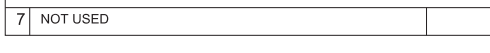
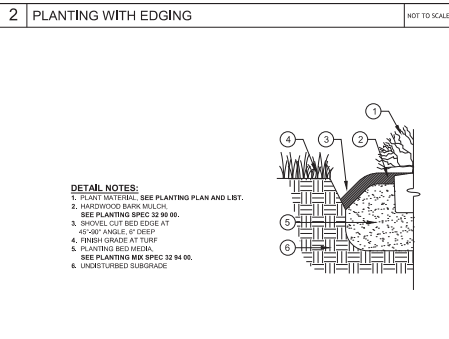
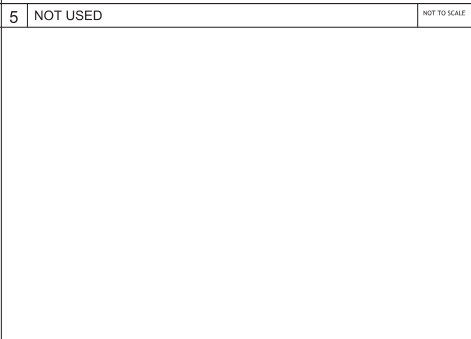
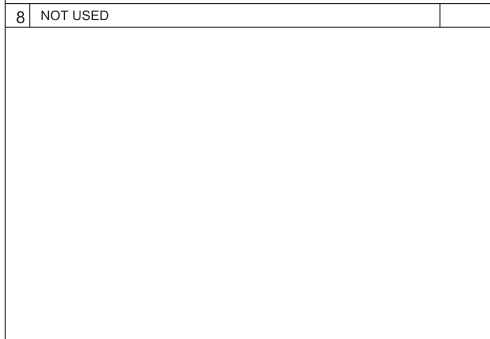
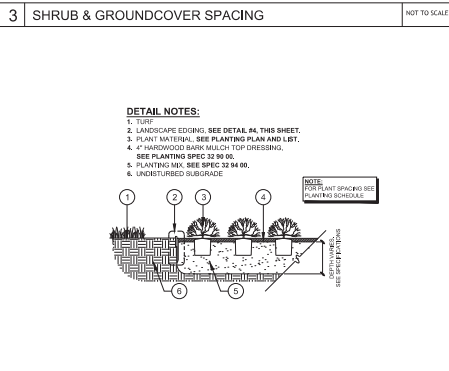
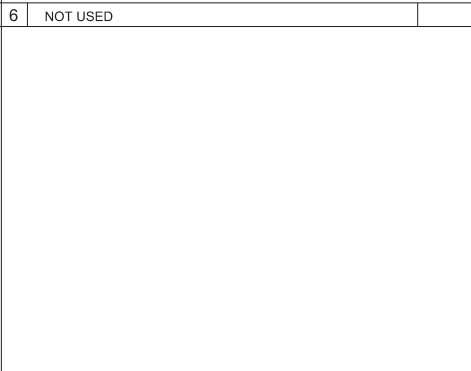
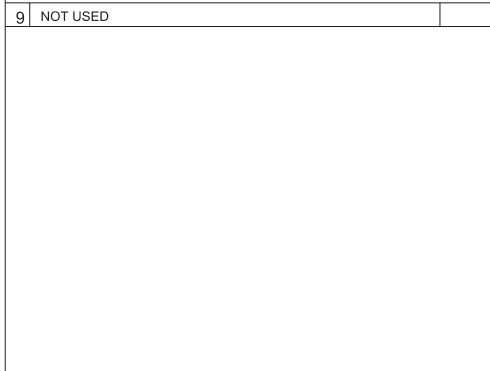
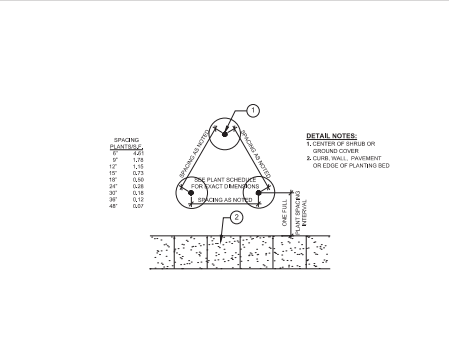
SEE ACADEMIC PLANTING PLAN



PLANTING LIST



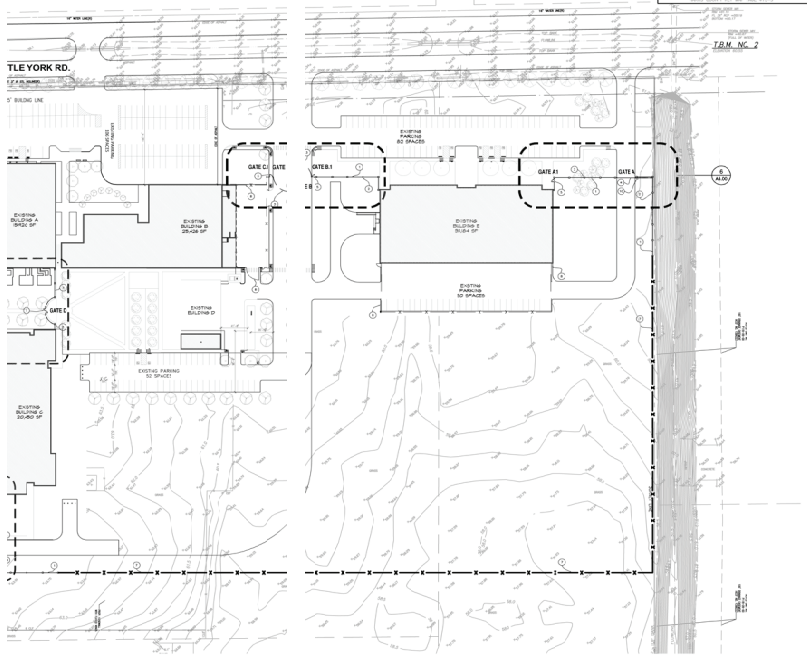
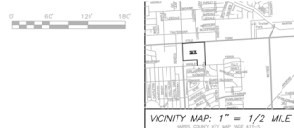
HCC NORTH EAST COLLEGE
 8500 NORTH COLLEGE DRIVE
 HOUSTON, TX 77061
 TEL: 281-746-4000
 FAX: 281-746-4001



HCC-103-F2142
 HCC NORTH HAVEN COLLEGE
 NORTH FOREST CAMPUS
 PERIMETER FENCE
 PLANTING DETAILS
 DATE: 04/11/14

T.B.M. NO. 2
 CORNER POINT OF BENCH MARK AT THE POINT OF CURVE
 FOR THE 100' RADIUS CURVE OF THE APPROXIMATE CENTERLINE
 OF TLE YORK RD. EXACT LOCATION AS SHOWN HEREIN.
 ELEVATION 51.00'

T.B.M. NO. 3
 CORNER POINT OF BENCH MARK AT THE POINT OF CURVE
 FOR THE 100' RADIUS CURVE OF THE APPROXIMATE CENTERLINE
 OF TLE YORK RD. EXACT LOCATION AS SHOWN HEREIN.
 ELEVATION 51.00'



GENERAL NOTES

1. VERIFY EXISTING CONDITIONS AND UTILITIES TO BE MAINTAINED OR REMOVED BY OWNER.
2. VERIFY ALL EXISTING UTILITIES AND RECORD.
3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL UTILITIES AND SHALL NOT BLOCK ACCESS TO DRAINS AND GRIP OFF AREAS.
4. CONTRACTOR SHALL MAINTAIN THE GRADE FROM 15' TO 10' FEET EXCEPT WHERE SHOWN OTHERWISE. SUCH GRADES ARE A MINIMUM 1% TO 2% TO MAINTAIN THE GRADE FROM 15' TO 10' FEET EXCEPT WHERE SHOWN OTHERWISE.
5. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. REFER TO GEOTECHNICAL DRAWINGS FOR ADDITIONAL INFORMATION.
7. REFER TO LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.

KEYED NOTES

1. EXISTING PAVED ASPHALT DRIVEWAY TO BE STRUCTURAL.
2. EXISTING PAVED ASPHALT DRIVEWAY TO BE STRUCTURAL.
3. EXISTING PAVED ASPHALT DRIVEWAY TO BE STRUCTURAL.
4. EXISTING PAVED ASPHALT DRIVEWAY TO BE STRUCTURAL.
5. EXISTING PAVED ASPHALT DRIVEWAY TO BE STRUCTURAL.
6. EXISTING PAVED ASPHALT DRIVEWAY TO BE STRUCTURAL.
7. EXISTING PAVED ASPHALT DRIVEWAY TO BE STRUCTURAL.
8. EXISTING PAVED ASPHALT DRIVEWAY TO BE STRUCTURAL.
9. EXISTING PAVED ASPHALT DRIVEWAY TO BE STRUCTURAL.
10. EXISTING PAVED ASPHALT DRIVEWAY TO BE STRUCTURAL.
11. NEW PAVED MATERIALS REFER TO LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.
12. 2" FINISH GRADE.

LEGEND

NOT IN SCALE

HCC
 HOUSTON COMMUNITY COLLEGE
 13800 HUNTERS GREEN
 HOUSTON, TX 77060
 (713) 768-2000
 (713) 768-4000

PG&A
 3131 BRADSHAW
 SUITE 202
 HOUSTON, TX 77042
 (713) 822-8444
 (713) 822-8833
 PG&A TRAFFIC REL. NO. P2742
 CONSULTANT

PROJECT TITLE
 HOUSTON COMMUNITY COLLEGE
 NORTH FORUM CAMPUS
 PERIMETER FENCE

PROJECT NUMBER
 1000000000

PROJECT LOCATION
 13800 HUNTERS GREEN
 HOUSTON, TEXAS 77060

DATE OF ISSUE
 JANUARY 28, 2020
 1000000000-1000000000

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER

STATE OF TEXAS

NO. 12345

DATE OF EXPIRATION

12/31/2025

