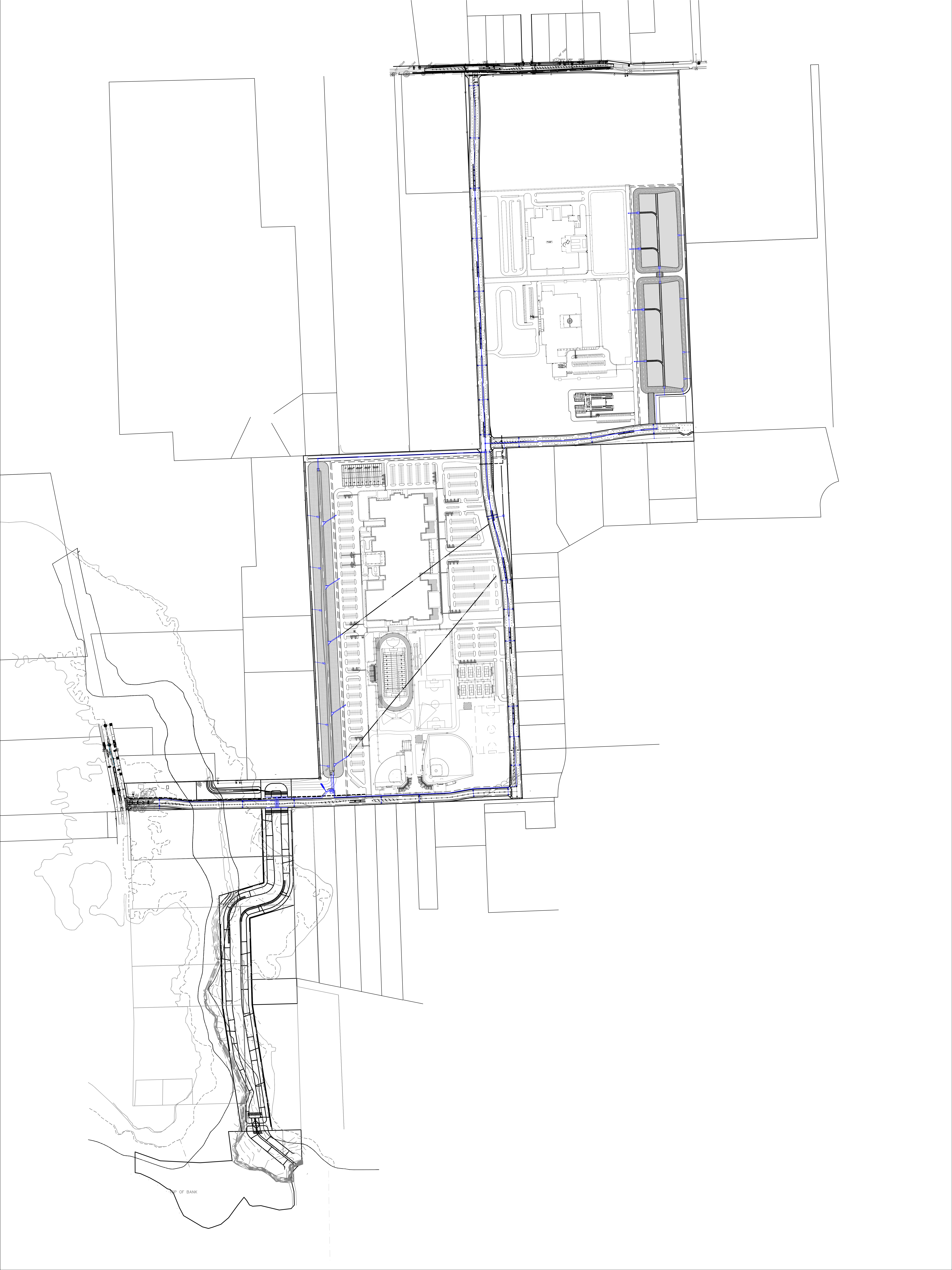




ed Map
escription for your map.

Juergen Rd

Juergen Rd

Juergen Rd

Juergen Rd

PROP. TEMPORARY DRIVE



LEGEND:

- FILL AREA
- 30- FEET OF HYDRO- MULCH UPON COMPLETION OF FILL
- PROPOSED FILTER FABRIC FENCE (SILT FENCE)
- STABILIZED CONSTRUCTION ACCESS

NOTES TO SHEET:

1. CONTRACTOR TO STRIP ALL VEGETATION AND STOCKPILE ON-SITE. STRIPPINGS TO BE SPREAD UPON COMPLETION OF FILL.
2. CONTRACTOR TO FILL SITE IN 8" ENGINEERED LIFTS TO 95% STANDARD PROCTOR DENSITY.
3. CONTRACTOR SHALL ENTER AND EXIT SITE VIA PROPOSED STABILIZED CONSTRUCTION ACCESS DRIVE TO JUERGEN ROAD.
4. CONTRACTOR SHALL PROVIDE FLAG-MAN AS NECESSARY TO ENSURE SAFETY FOR TRUCKS ENTERING AND EXITING THE SITE.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PUBLIC ROADS FREE FROM VEHICLE TRACKING OF MUD AND DEBRIS.
6. CONTRACTOR SHALL ENSURE THAT SITE CONTINUES TO DRAIN WITH NO AREAS OF STANDING WATER.
7. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE TEMPORARY DRIVE AND CULVERT WITH HARRIS COUNTY AND OBTAINING ALL NECESSARY PERMITS.
8. CONTRACTOR TO REMOVE FILTER FABRIC FENCE ONCE GRASS HAS BEEN ESTABLISHED.

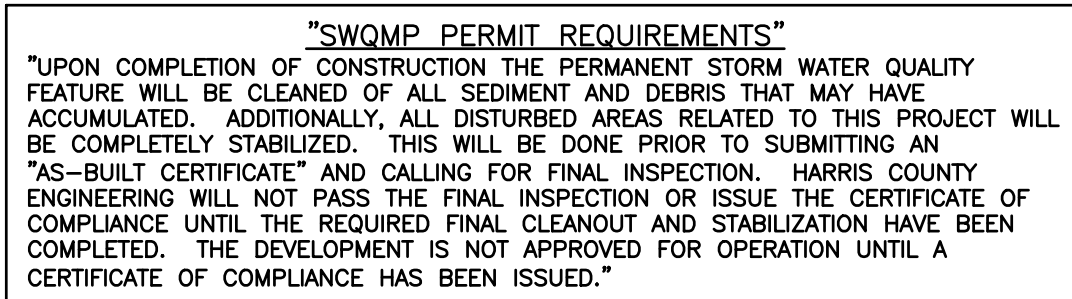
Cypress Hls Dr

Cypress Hls Dr

e Earth

TOMBALL ISD
FILL SITE

BROOKS & SPARKS, INC.
CONSULTING ENGINEERING
TEXAS REGISTERED ENGINEERING FIRM F-880
21020 PARK ROW
KATY, TX 77449
PHONE: (281) 578-9595
FAX: (281) 578-9596



 **BROOKS & SPARKS, INC.**
CONSULTING ENGINEERING
TEXAS REGISTERED ENGINEERING FIRM F-880
21020 PARK ROW PHONE: (281) 578-9595
KATY, TX 77449 FAX: (281) 578-9686

ACCORDING TO F.I.R.M. MAP NO. 48201C0215L (COMMUNITY-PANEL NO. 4802870215L), MAP REVISED DATE: JUNE 18, 2007, THE SUBJECT PROPERTY LIES WITHIN THE AREAS DESIGNATED AS ZONE "X" UNSHADED. DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD, ZONE X UNSHADED AREAS, 0.2% ANNUAL CHANCE FLOOD; AREAS OF ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD, ZONE AE, BASE FLOOD ELEVATIONS DETERMINED, AND FLOODWAY, THE FLOODING TO THE PROPERTY FROM STREAM PLUS ANY ADJACENT FLOODPLAIN AREAS THAT MUST BE KEPT FREE OF ENCROACHMENT SO THAT THE 1% ANNUAL CHANCE FLOOD CAN BE CARRIED WITHOUT SUBSTANTIAL INCREASES IN FLOOD HEIGHTS.

RM111050 - ALUMINUM ROD WITH LOGO CAP
STAMPED "111050" LOCATED ON THE NORTH SIDE
OF BAUER-HOCKLEY ROAD $\pm 75'$ EAST OF ITS
INTERSECTION WITH ANGELI DRIVE AND $\pm 120'$ WEST
OF A POWER POLE IN KEY MAP 326B IN THE
CYPRESS CREEK WATERSHED.
ELEVATION = 176.30' (NAVD 88, 2001 ADJ.)

TBM "A" - BOX CUT ON "BB" INLET LOCATED ON THE EAST SIDE OF MUESCHKE ROAD $\pm 50'$ SOUTH OF THE MOST NORTHERLY SOUTHWEST CORNER OF THE SUBJECT TRACT.
ELEVATION = 169.64'

NOTE: THE LOCATIONS OF THE PRIVATE UTILITY LINES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE ALSO ACCEPTS FULL RESPONSIBILITY FOR ANY AND ALL DAMAGES INCURRED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UTILITIES.

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT ENERGY AT 713-207-2222.

NOTICE:

FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT THAT UNDERGROUND LINES CAN BE MARKED. THIS VERIFICATION DOES NOT FULFILL YOUR OBLIGATION TO CALL 811.

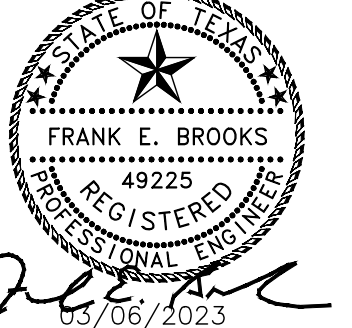
CenterPoint Energy/Natural Gas Facilities Verification ONLY. (This Signature verifies that you have shown CNP Natural Gas lines correctly. Not to be used for conflict verification.) (Gas service lines are not shown.)
Signature Valid for six months.

Date: _____

CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY. [This Signature verifies that existing underground facilities. Not to be used for conflict verification.] Signature Valid for six months.

APPROVED FOR AT&T TEXAS/SWB UNDERGROUND CONDUIT FACILITIES ONLY,
Signature valid for one year.

BROOKS & SPARKS, INC.
F-880

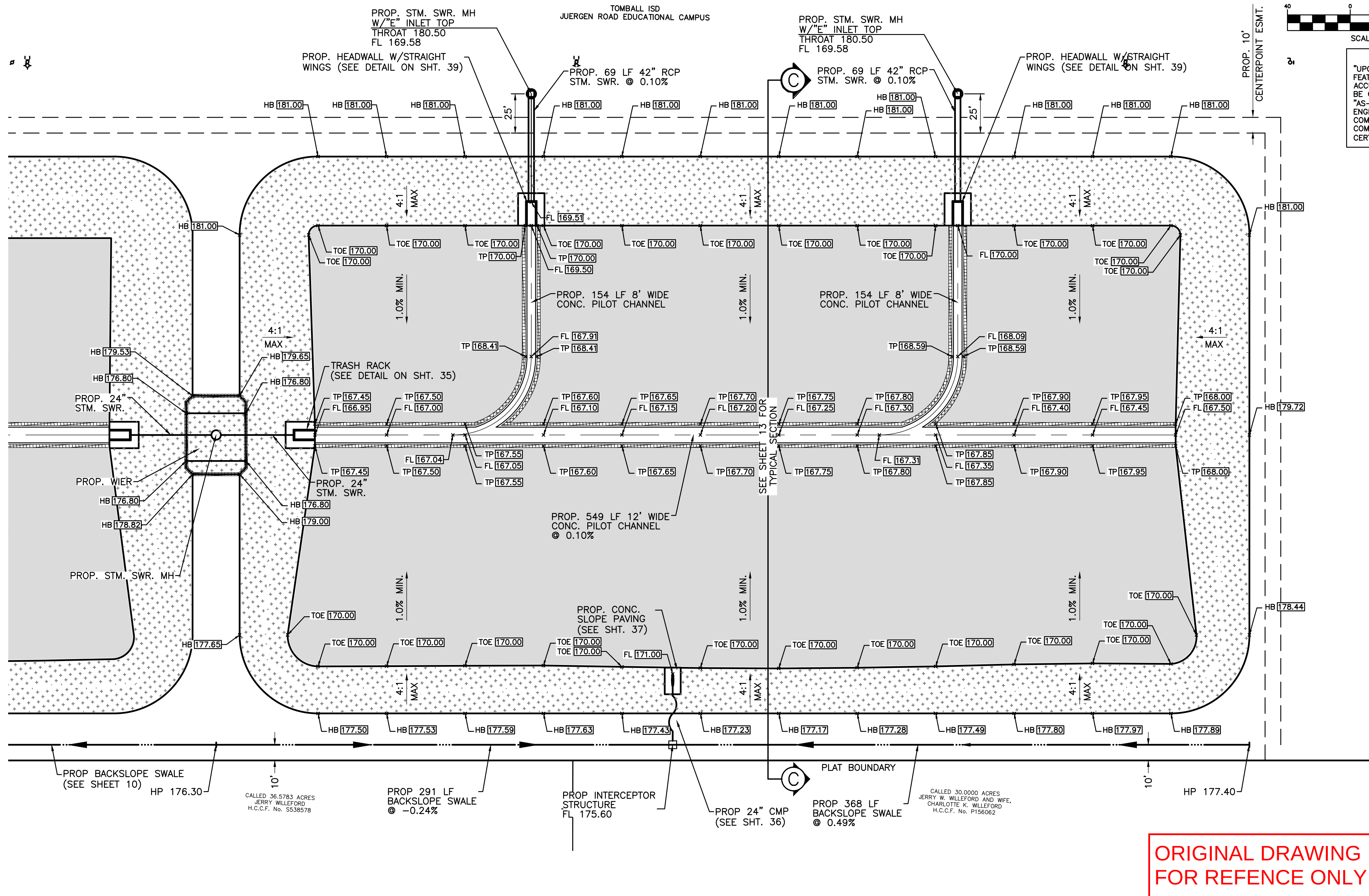


**TOMBALL INDEPENDENT SCHOOL DISTRICT
PLANS FOR
DETENTION BASINS, STORM SEWER
AND SITE EARTHWORK
TO SERVE
JUERGEN ROAD EDUCATIONAL CAMPUS**

DETENTION BASIN LAYOUT
(SOUTH POND)

NO.	DATE	REVISIONS	BY
DRAWN BY: RV		CHECKED BY: CSM, JAE	
DESIGNED BY: CSM		APPROVED BY: FEB	
PROJECT NO. 866-0018		DATE: 03/06/2023	
SCALE: 1"=40'		SHEET 10 OF 46	

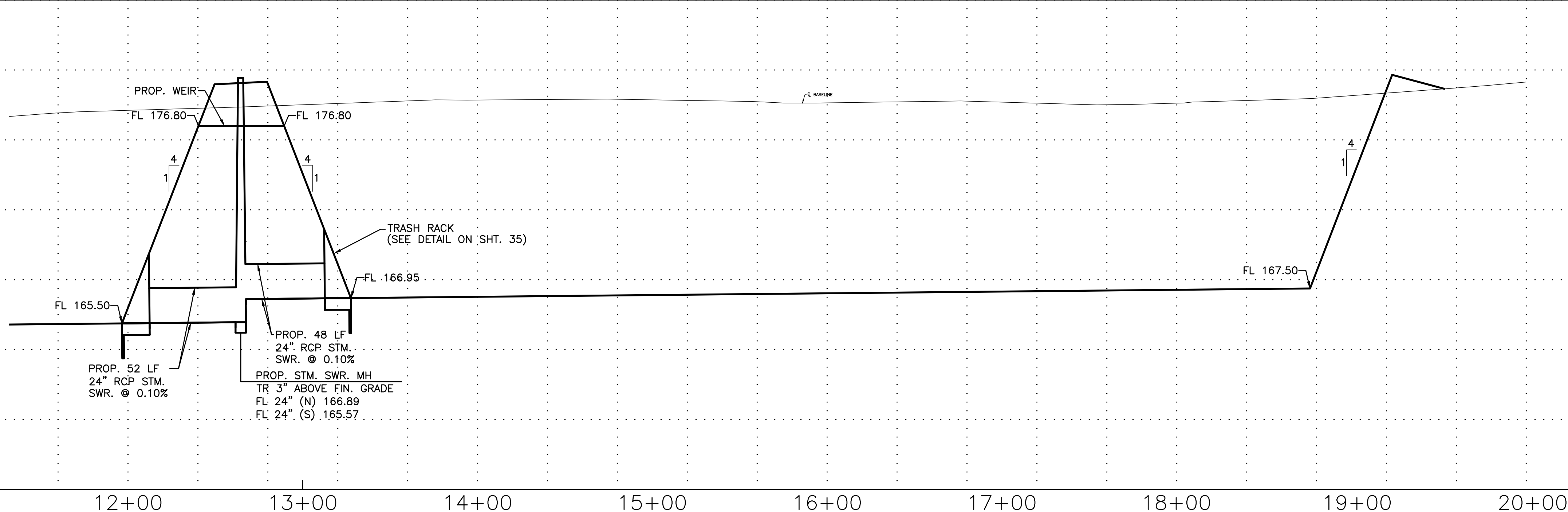
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\\hou-srv05\CADD\project\BROOK_Sp\Tomball_ISD\866018-Juergen_Tract\Civil\POND_PKC\866-0018 - POND - PLAN.dwg
Includes Xref(s): 866018-X-POND-BRD.dwg; 866018-X-TOPO.dwg; 866018-X-POND-SEAL.dwg; 866018-X-POND-PROF.dwg; 866018-X-ROADWAY.dwg



"SWQMP PERMIT REQUIREMENTS"
"UPON COMPLETION OF CONSTRUCTION THE PERMANENT STORM WATER QUALITY FEATURE WILL BE CLEANED OF ALL SEDIMENT AND DEBRIS THAT MAY HAVE ACCUMULATED. ADDITIONALLY, ALL DISTURBED AREAS RELATED TO THIS PROJECT WILL BE COMPLETELY STABILIZED. THIS WILL BE DONE PRIOR TO SUBMITTING AN "AS-BUILT CERTIFICATE" AND CALLING FOR FINAL INSPECTION. HARRIS COUNTY ENGINEERING WILL NOT PASS THE FINAL INSPECTION OR ISSUE THE CERTIFICATE OF COMPLIANCE UNTIL THE REQUIRED FINAL CLEANOUT AND STABILIZATION HAVE BEEN COMPLETED. THE DEVELOPMENT IS NOT APPROVED FOR OPERATION UNTIL A CERTIFICATE OF COMPLIANCE HAS BEEN ISSUED."

LEGEND:

- TP 165.00 PROPOSED TOP OF PAVEMENT
- HB 180.00 PROPOSED HIGH BANK
- TOE 180.00 PROPOSED TOE
- FL 168.50 PROPOSED FLOW LINE
- PROP. LIMITS OF SOLID SOD
- PROP. LIMITS OF FLEX TERRA CONTRACTOR TO INSTALL PER MANUFACTURERS SPECIFICATIONS.
- PROP. LIMITS OF HYDRO-MULCH



UTILITY ONE CALL

CONTRACTOR TO CALL BEFORE DIGGING !!!!
PHONE: 811



BROOKS & SPARKS, INC.
CONSULTING ENGINEERING
TEXAS REGISTERED ENGINEERING FIRM F-880
21020 PARK ROW KATY, TX 77449
PHONE: (281) 578-9595
FAX: (281) 578-9686

FLOODPLAIN INFORMATION:

ACCORDING TO F.I.R.M. MAP NO. 48201C0215L (COMMUNITY-PANEL NO. 4802870215L), MAP REVISED DATE: JUNE 18, 2007. THE SUBJECT PROPERTY LIES WITHIN THE AREAS DESIGNATED AS ZONE "X" UNSHADED. DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD. ZONE X SHADED. AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD. ZONE AE. BASE FLOOD ELEVATIONS DETERMINED. AND FLOODWAY. THE FLOODWAY IS THE CHANNEL OF A STREAM PLUS ANY ADJACENT FLOODPLAIN AREAS THAT MUST BE KEPT FREE OF ENCROACHMENT SO THAT THE 1% ANNUAL CHANCE FLOOD CAN BE CARRIED WITHOUT SUBSTANTIAL INCREASES IN FLOOD HEIGHTS.

REFERENCE BENCHMARK:

RM111050 - ALUMINUM ROD WITH LOGO CAP STAMPED "111050" LOCATED ON THE NORTH SIDE OF BAUER-HOCKLEY ROAD ±75' EAST OF ITS INTERSECTION WITH ANGELI DRIVE AND ±120' WEST OF A POWER POLE IN KEY MAP 326B IN THE CYPRESS CREEK WATERSHED.
ELEVATION = 176.30' (NAVD 88, 2001 ADJ.)

TEMPORARY BENCHMARKS:

TBM "A" - BOX CUT ON "BB" INLET LOCATED ON THE EAST SIDE OF MUESCHKE ROAD ±50' SOUTH OF THE MOST NORTHERLY SOUTHWEST CORNER OF THE SUBJECT TRACT.
ELEVATION = 169.64'

NOTE: THE LOCATIONS OF THE PRIVATE UTILITY LINES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE ALSO ACCEPTS FULL RESPONSIBILITY FOR ANY AND ALL DAMAGES INCURRED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UTILITIES.

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT ENERGY AT 713-207-2222.
NOTICE:
FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS VERIFICATION DOES NOT FULFILL YOUR OBLIGATION TO CALL 811.

VERIFICATION OF PRIVATE UTILITY LINES

Date: _____
CenterPoint Energy/Natural Gas Facilities Verification ONLY. (This Signature verifies that you have shown 200' Natural Gas lines correctly. Not to be used for conflict verification.) (Site service lines are not shown.) Signature Valid for six months.

Date: _____
CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY. (This Signature verifies that existing underground facilities. Not to be used for conflict verification.) Signature Valid for six months.

Date: _____
APPROVED FOR AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES ONLY. Signature valid for one year.

BROOKS & SPARKS, INC.
F-880
STATE OF TEXAS
REGISTERED PROFESSIONAL ENGINEER
FRANK E. BROOKS
49225
03/06/2023

**TOMBALL INDEPENDENT SCHOOL DISTRICT
PLANS FOR
DETENTION BASINS, STORM SEWER
AND SITE EARTHWORK
TO SERVE
JUERGEN ROAD EDUCATIONAL CAMPUS**

**DETENTION BASIN LAYOUT
(NORTH POND)**

NO.	DATE	REVISIONS	BY

DRAWN BY: RV	CHECKED BY: CSM, JAE
DESIGNED BY: CSM	APPROVED BY: FEB
PROJECT NO. 866-0018	DATE: 03/06/2023
SCALE: 1"=40'	SHEET 11 OF 46



ACCORDING TO F.I.R.M. MAP NO. 482010215/
(COMMUNITY-PANEL NO. 4802870215)/, MAP
REVISED DATE: JUNE 18, 2007, THE SUBJECT
PROPERTY LIES WITHIN THE AREAS DESIGNATED AS
ZONE "X" UNSHADED. DETERMINED TO BE OUTSIDE
THE 0.2% ANNUAL CHANCE FLOOD. ZONE X
SHADED. AREAS OF 0.2% ANNUAL CHANCE FLOOD;
AREAS OF 1% ANNUAL CHANCE FLOOD WITH AN
AVERAGE DEPTH OF 1.0 TO 1.5 FEET OR WITH
DRAINAGE AREAS LESS THAN 1 SQUARE MILE;
AREAS PROTECTED BY LEVEES FROM 1% ANNUAL
CHANCE FLOOD. ZONE AE. BASE FLOOD
ELEVATIONS DETERMINED, AND FLOODWAY.
THE FLOODWAY IS THE CHANNEL OF THE STREAM PLUS
ANY ADJACENT FLOODPLAIN AREAS THAT MUST BE
KEPT FREE OF ENCROACHMENT SO THAT THE 1%
ANNUAL CHANCE FLOOD CAN BE CARRIED WITHOUT
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RM111050 - ALUMINUM ROD WITH LOGO CAP
STAMPED "111050" LOCATED ON THE NORTH SIDE
OF BAUER-HOCKLEY ROAD $\pm 75'$ EAST OF ITS
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TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT ENERGY AT 713-207-2222.

NOTICE:

FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS VERIFICATION DOES NOT FULFILL YOUR OBLIGATION TO CALL 811.

Date: _____

CenterPoint Energy/Natard Gas Facilities Verification ONLY. [This Signature verifies that you have shown CNP Natard Gas lines correctly. Not to be used for conflict verification.] (Gas service lines are not shown.)
Signature Valid for six months.

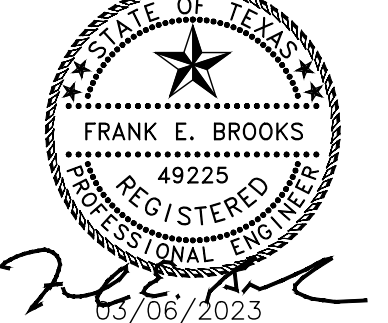
Date: _____

CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY. [This Signature verifies that existing underground facilities. Not to be used for conflict verification.] Signature Valid for six months.

Date: _____

APPROVED FOR AT&T TEXAS/SWBUT UNDERGROUND CONDUIT FACILITIES ONLY,
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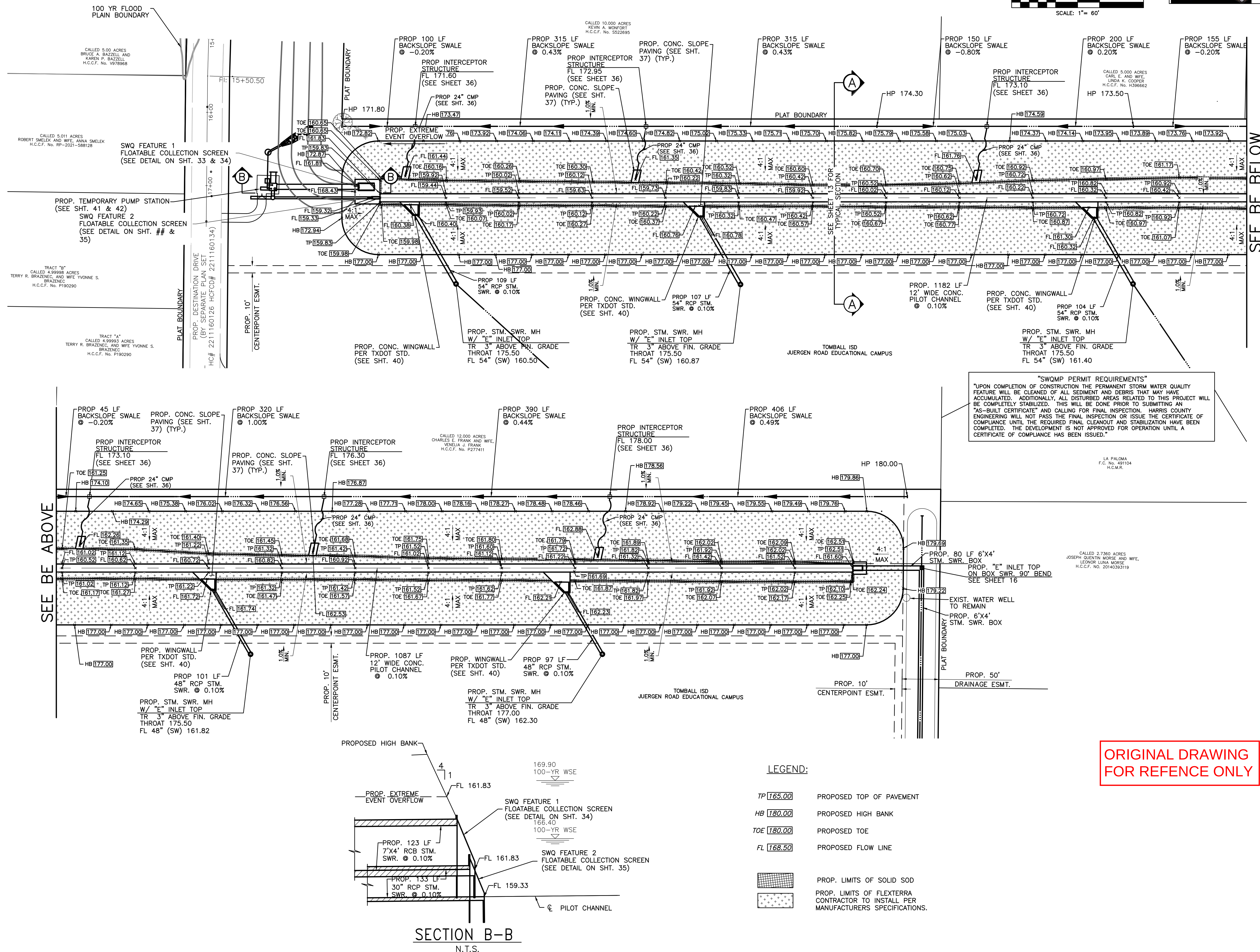
BROOKS & SPARKS, INC.
F-880



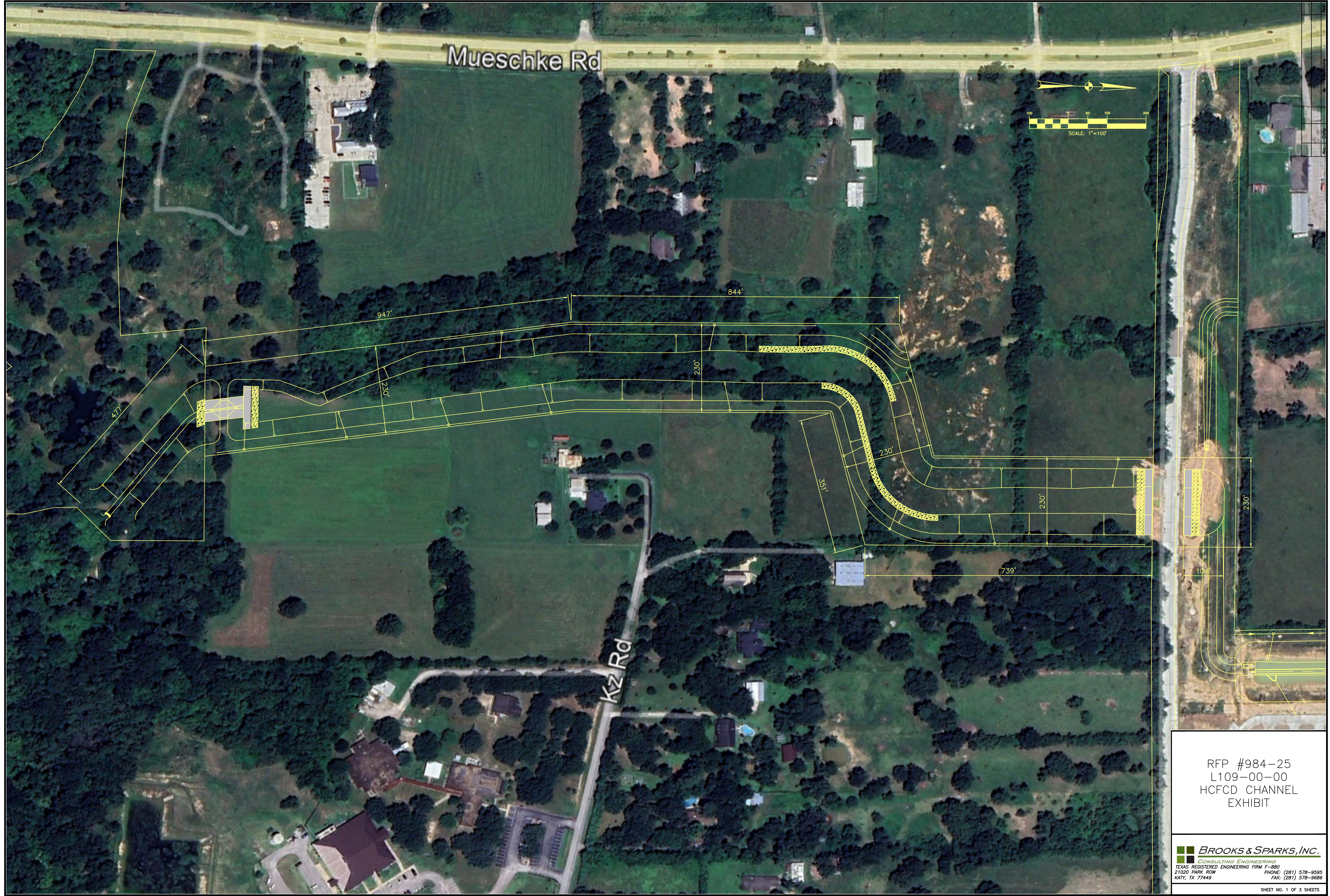
TOMBALL INDEPENDENT SCHOOL DISTRICT
PLANS FOR
DETENTION BASINS, STORM SEWER
AND SITE EARTHWORK
TO SERVE
JUERGEN ROAD EDUCATIONAL CAMPUS

CONVEYANCE CHANNEL
LAYOUT

NO.	DATE	REVISIONS	BY
DRAWN BY: RV		CHECKED BY: CSM, JAE	
DESIGNED BY: CSM		APPROVED BY: FEB	
PROJECT NO. 866-0018		DATE: 03/06/2023	
SCALE: 1"=60"		SHEET 9 OF 46	



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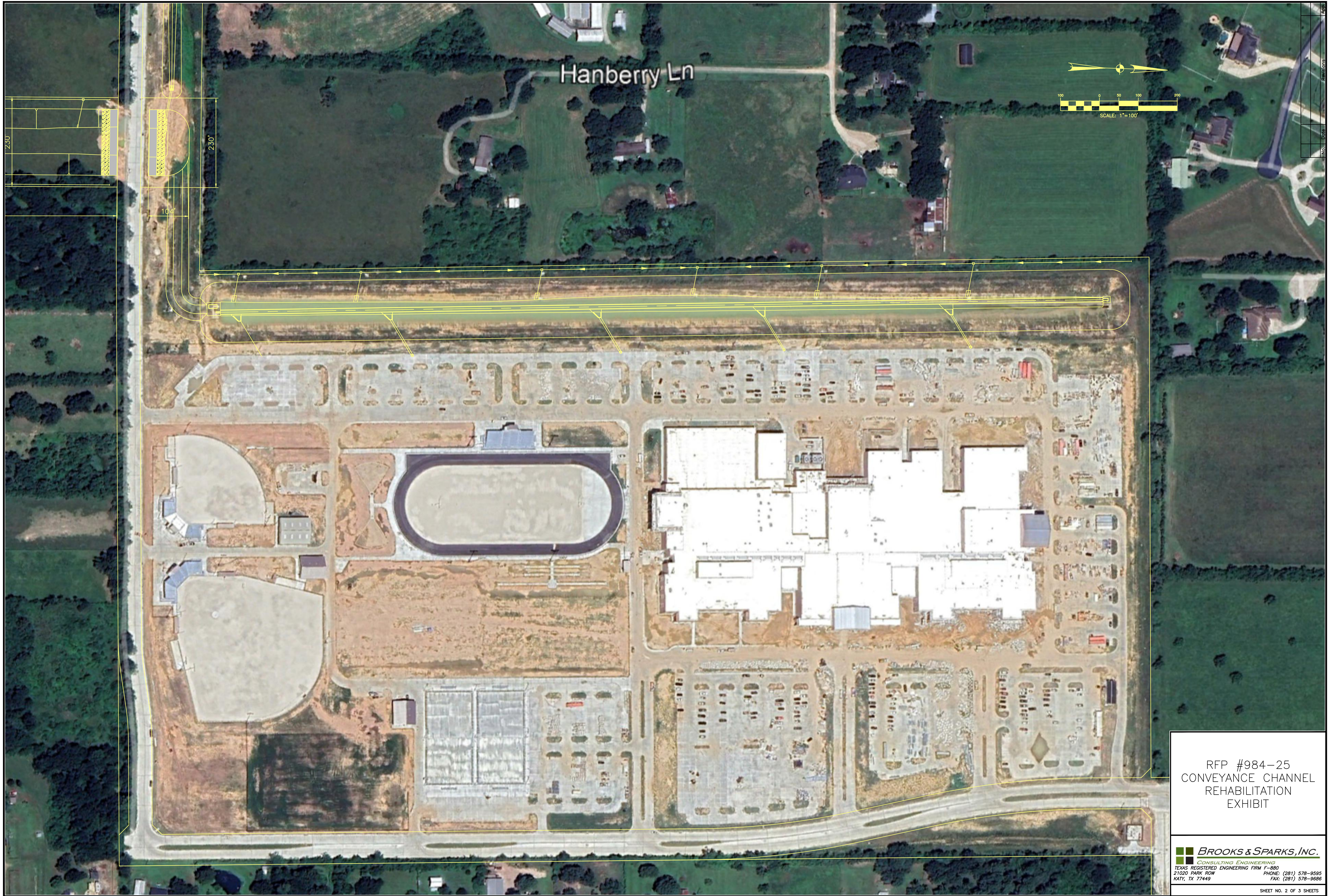


RFP #984-25
L109-00-00
HCFC CHANNEL
EXHIBIT

BROOKS & SPARKS, INC.
CONSULTING ENGINEERING
TEXAS REGISTERED ENGINEERING FIRM F-680
21020 PARK ROW PHONE: (281) 578-9595
KATY, TX 77449 FAX: (281) 578-9686

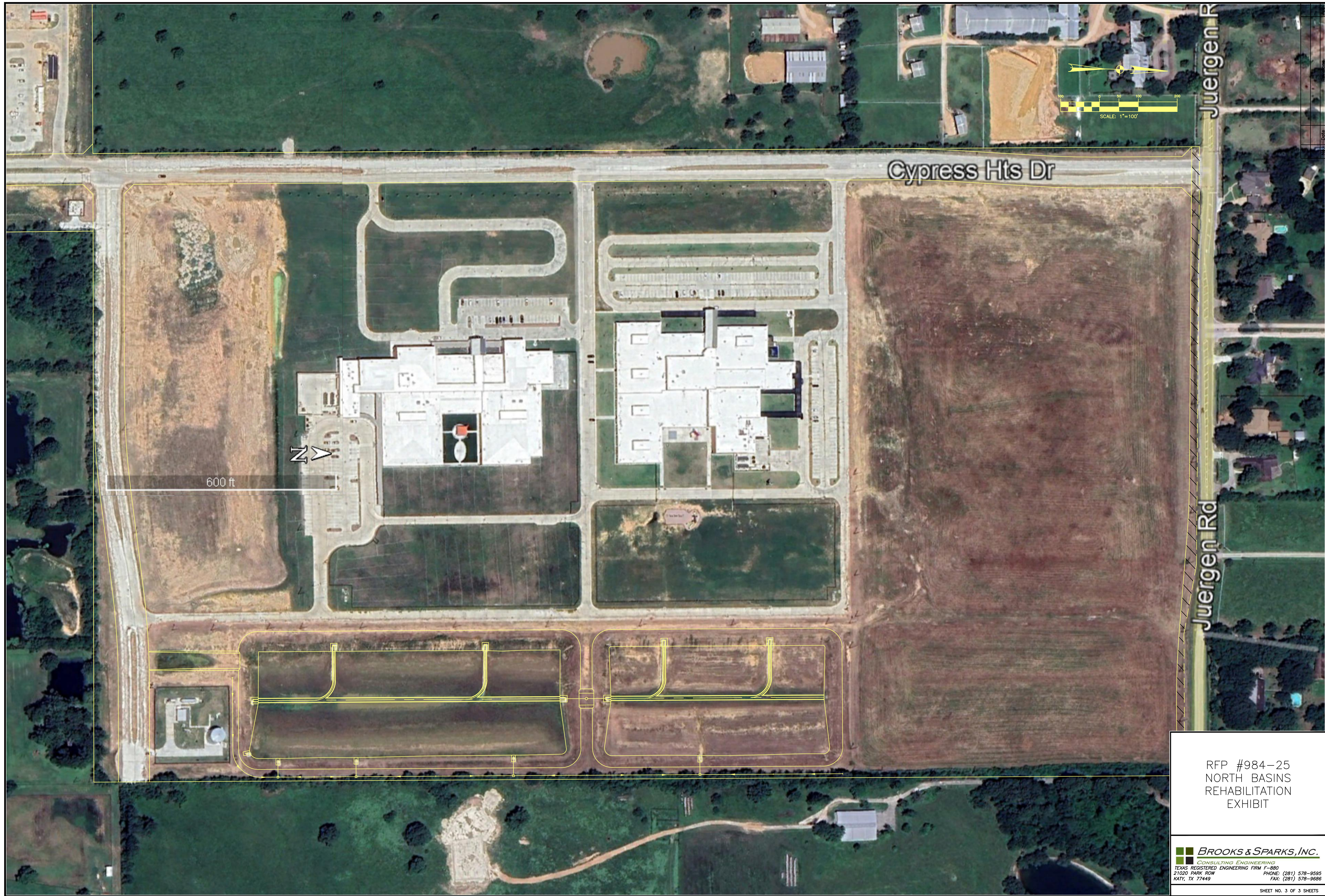
SHEET NO. 1 OF 3 SHEETS

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RFP #984-25
CONVEYANCE CHANNEL
REHABILITATION
EXHIBIT

BROOKS & SPARKS, INC.
CONSULTING ENGINEERING
TEXAS REGISTERED ENGINEERING FIRM F-680
21020 PARK ROW PHONE: (281) 578-9595
KATY, TX 77449 FAX: (281) 578-9686



RFP #984-25
NORTH BASINS
REHABILITATION
EXHIBIT