#### GENERAL NOTES

#### SOIL CLASSIFICATION: SOIL IS HARD CLAY BASED ON BORE LOG D-15 BY RABA KISTNER DATED 6-3-22

- SHORING DESIGN BASED ON SOIL CLASSIFICATION ABOVE. CONTACT SHORING ENGINEER IF LESS COMPETENT MATERIALS ARE ENCOUNTERED.
- 2. MANUFACTURER'S TABULATED DATA APPLIES EXCEPT AS NOTED HEREIN.
- ANCILLARY SYSTEM SUPPORTS AND/OR CONNECTORS INCLUDING, BUT NOT LIMITED TO, HANGING CHAINS, STACKING PINS, SPREADER PINS, ETC., ARE NOT SHOWN ON DRAWINGS. REFER TO MANUFACTURER'S PRODUCT TECHNICAL AND INSTALLATION GUIDES FOR SPECIFICATIONS AND CONNECTION DETAILS.
- 4. PROVIDE ACCESS AND BARRICADING PER OSHA REQUIREMENTS.
- 5. SHORING MUST BE PROPERLY INSTALLED PRIOR TO WORKERS ENTERING EXCAVATION. WORKERS SHALL ENTER, EXIT, AND WORK ONLY IN SHORED AREAS.
- 6. ALL STEEL (INCLUDING MANUFACTURER ASSEMBLIES) SHALL BE IN GOOD CONDITION AND FREE OF ANY DAMAGE, HOLES, OR VISIAL DEFECTS, STRUCTURAL STEEL SHAPES TO BE ASTM A992 OR A572 GR. 50 STEEL, MIN FY = 50 KSI. STEEL PIPE TO BE ASTM A53, GR. B, MIN FY = 35 KSI. HSS TUBE TO HAVE MIN FY = 55 KSI. STEEL PLATE TO BE ASTM A53, MIN FY = 36KSI. UNLESS OTHERWISE NOTED, ALL TIMBER LAGGING TO BE ROUGH-CUT WITH MIN FR = 860 FSI. FOR ALL OTHER MODULAR COMPONENTS, REFER TO MANUFACTURER'S TABULATED DATA OR PRODUCT TECHNICAL INFORMATION.
- ALL VOIDS BETWEEN THE EXCAVATED SOIL AND THE FACE OF THE SHORING SYSTEM MUST BE BACKFILLED WITH EXCAVATED SOIL OR OTHER APPROVED BACKFILL PRIOR TO WORKERS ENTERING EXCAVATION.
- CONTRACTOR IS RESPONSIBLE FOR INSTALLING A DEWATERING SYSTEM, IF NECESSARY, AND VERIFYING THAT THE GROUNDWATER LEVEL BEHIND THE SHORING WALLS HAS BEEN LOWERED AT LEAST TO THE MINIMUM LEVEL SHOWN ON THE SECTION VIEW (S). IF CONTRACTOR IS UNABLE TO LOWER THE GROUNDWATER TO THE LEVEL SHOWN, CONTACT THE SHORING ENGINEER TO CHECK. IF THE HIGHER LEVELS ARE ACCEPTABLE OR TO REDESIGN THE SHORING SYSTEM, IF NECESSARY.
- UNITED RENTALS WILL NOT SUPERVISE, DIRECT, CONTROL, OR HAVE AUTHORITY OVER, OR BE RESPONSIBLE FOR CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENT THERETO, OR FOR ANY FAILURE OF CONTRACTOR TO COMPLY WITH LAWS AND REGULATIONS APPLICABLE TO THE FURNISHING OF PERFORMANCE OF WORK.
- 10. THE CONTRACTOR SHALL VERIFY THAT REQUIRED CLEARANCES ARE OBTAINED PRIOR TO COMMENCEMENT OF THE WORK.
- 11. THE PURPOSE OF THE SHORING SYSTEM IS TO TEMPORARILY SUPPORT THE TRENCH OR EXCAVATION FOR WORKER PROTECTION. ALL EXISTING OR PROPOSED INFRASTRUCTURE WITHIN THE SHORING SYSTEM INCLUDING, BUT NOT LIMITED TO. STRUCTURES, TANKS, JUITU YUNES, ETC., ARE SEPARATE FROM THE SHORING SYSTEM AND HAVE BEEN OMITED FROM THE SHORING DESIGN PLAN. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING THE EXCAVATION.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL DIMENSIONS FOR BOTH EXISTING AND PROPOSED WORK.
- 13. UNITED RENTALS SHORING SYSTEMS ARE DESIGNED FOR WORKER PROTECTION ONLY. UNITED RENTALS BEARS NO RESPONSIBILITY OR LIABILITY FOR ANY SETTLEMENT, MOVEMENT, OR DAMAGE OF ANY KIND THAT MAY OCCUR TO EXISTING BUILDING STRUCTURES OR UTILITIES DUE TO THE SHORING, INSTALLATION, DEFLECTION, REMOVAL, OR OTHER CONSTRUCTION ACTIVITIES.
- 14. THIS PLAN IS SPECIFICALLY DESIGNED TO COMPLY WITH OSHA 29 CFR 1926 SUBPART P RULES AND REGULATIONS.
- 15. THE CONTRACTOR'S COMPETENT PERSON SHALL ENSURE SETBACK DISTANCE COMPLIES WITH SETBACK TABLE (NOTE: AN EXCAVATOR WITH GROUND BEARING PRESSURE OF 1.000 PSF SHALL MATCH THE SETBACK FOR A 30 TON EXCAVATOR, 1.500 PSF SHALL MATCH THE 70 TON EXCAVATOR, AND 2.000 PSF SHALL MATCH THE 90 TON EXCAVATOR). SETBACK DISTANCES REFLECT MINIMUM SETBACKS AND ARE TO BE MEASURED FROM DECE OF EXCAVATION. IF SPECIFIED SETBACK FALLS WITHIN A SLOPED AREA, SETBACK MUST BE EXTENDED TO A DISTANCE 2' PAST OUTSIDE OF SLOPE.

# United Rentals Trench Safety

## SHORING DESIGN PLAN

## KIEWIT INFRA SOUTH CENTRAL

### TAYLOR , TX

### TAYLOR SEMICONDUCTOR CHIP MANUFACTURING PLANT EXP

SETBACK TABLE

(SEE NOTE 15)

DISTANCE

8'

DESCRIPTION

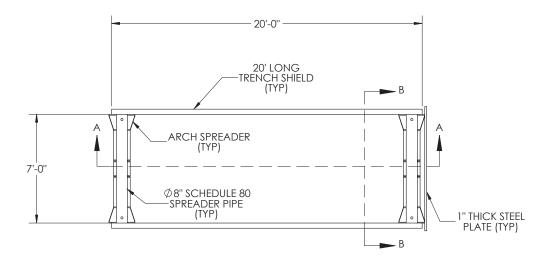
CRANE TO 30 TON MAX

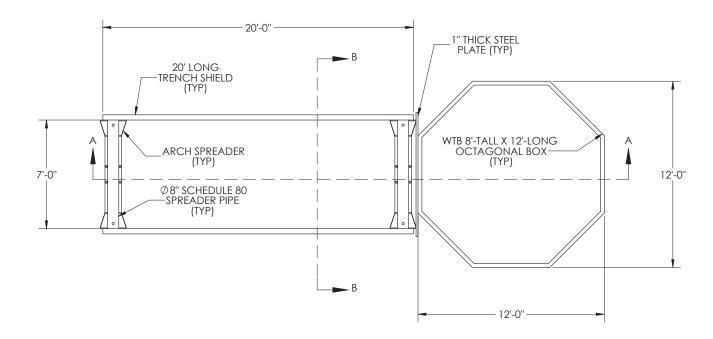
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							30 TON EXCAVATOR 70 TON EXCAVATOR 90 TON EXCAVATOR	6' 10' 12'	
		NUMBER	REVISION DATE		PROJECT LOCATION	COPYRIGHT	3 CY LOADER 5 CY LOADER	4' 6'	authAULED, FOLINCH
Bontale	EGR2 DRAWN	30954 <u>CHECKED</u>		SHORING DESIGN PLAN	TAYLOR , TX	NOTICE COPYRIGHT IS RETAINED BY UNITED RENTALS FROM THE	DUMP TRUCK SPOIL PILE (6' TALL)	5' 4'	136382
ENGINEERING DEPARTMENT	WAT	КН		CUSTOMER KIEWIT INFRA SOUTH CENTRAL	PROJECT NAME TAYLOR SEMICONDUCTOR CHIP	DATE OF ISSUANCE OF THESE DOCUMENTS. DUFLICATION OF THESE DOCUMENTS OR THE WORK REPRESENTED BY THEM IS	CONCRETE TRUCK RAILROAD TRACK G	10' 100'	Solonia ENG
7B OAK BRANCH DRIVE GREENSBORO, NC 27407 PHONE: 336-398-5060	<u>знеет</u> 1 of 14	<u>DATE</u> 6/15/2023		NEWIT INFRA JOUIN CENTRAL	MANUFACTURING PLANT EXP	PROHIBITED WITHOUT THE EXPRESS WRITTEN CONSENT OF UNITED RENTALS.	EXISTING STRUCTURES HS20-44 VEHICULAR TRAFFIC	50' 50'	2023-06-15 UNITED RENTALS (NORTH AMERICA), INC. COA# F-4810

							SETBACK TA (SEE NOTE 15)		SEAL:
							DESCRIPTION	DISTANCE	ATE OF LETA
PLAN VIEW-PHASE A	1 2 D						CRANE TO 30 TON MAX	8'	μ μ το
				NOTE: ALL SOIL LINE	es removed from plan view(s) for cla	RITY. WHEN	30 TON EXCAVATOR	6'	
SCALE: 1/4" = 1'-0" (1	1:48)			APPLICABLE, SLOPING/BENCHING LINES WILL BE SHOWN IN SECTION VIEW(S).				10'	
	/						90 TON EXCAVATOR	12'	
							3 CY LOADER	4'	AULD, FRENCH
		REVISION DATE		PROJECT LOCATION TAYLOR , TX	COPYRIGHT NOTICE	5 CY LOADER	6'	136382	
United	EGR230954						DUMP TRUCK		5'
Rentals	DRAWN	CHECKED				COPYRIGHT IS RETAINED BY UNITED RENTALS FROM THE DATE OF ISSUANCE OF	SPOIL PILE (6' TALL)	4'	
	WAT	КН		CUSTOMER	PROJECT NAME	THESE DOCUMENTS. DUPLICATION OF THESE	CONCRETE TRUCK	10'	CAN CENSED
ENGINEERING DEPARTMENT				KIEWIT INFRA SOUTH CENTRAL	TAYLOR SEMICONDUCTOR CHIP	DOCUMENTS OR THE WORK REPRESENTED BY THEM IS	RAILROAD TRACK Q	100'	SSIONAL ENG
7B OAK BRANCH DRIVE GREENSBORO, NC 27407	SHEET	DATE				PROHIBITED WITHOUT THE EXPRESS WRITTEN CONSENT OF UNITED RENTALS.	EXISTING STRUCTURES	50'	2023-06-15
PHONE: 336-398-5060	2 of 14	6/15/2023			MANUFACTURING PLANT EXP	OF UNITED RENIALS.	HS20-44 VEHICULAR TRAFFIC	50'	UNITED RENTALS (NORTH AMERICA), INC. COA# F-4810





OCTAGONAL BOXES MAY BE HELD 2' ABOVE BASE WITH LEGS. BOTTOM OCTAGONAL BOX IS TO HAVE 6'X6' CUTOUT FOR CROSSING UTILITY. INSTALL OCTAGONAL MANHOLE SHIELD AT PLANNED MANHOLE LOCATIONS

**PLAN VIEW-PHASE B** SCALE: 1/4" = 1'-0" (1:48)

NOTE: ALL SOIL LINES REMOVED FROM PLAN VIEW(S) FOR CLARITY. WHEN APPLICABLE, SLOPING/BENCHING LINES WILL BE SHOWN IN SECTION VIEW(S).

SETBACK TABLE

(SEE NOTE 15)

CRANE TO 30 TON MAX

30 TON EXCAVATOR

70 TON EXCAVATOR

90 TON EXCAVATOR

DISTANCE

8'

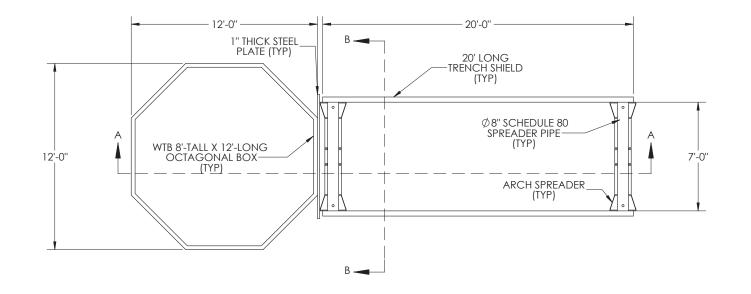
6'

10'

12'

SEAL:

		DRAWING NUMBER EGR230954		TITLE SHORING DESIGN PLAN	PROJECT LOCATION TAYLOR , TX	COPYRIGHT NOTICE	3 CY LOADER 5 CY LOADER DUMP TRUCK	4' 6' 5'	136382
	drawn WAT	<u>checked</u> KH		CUSTOMER	PROJECT NAME	COPYRIGHT IS RETAINED BY UNITED RENTALS FROM THE DATE OF ISSUANCE OF THESE DOCUMENTS. DUPLICATION OF THESE DOCUMENTS OR THE WORK	SPOIL PILE (6' TALL) CONCRETE TRUCK RAILROAD TRACK G	4' 10' 100'	130302
7B OAK BRANCH DRIVE GREENSBORO, NC 27407 PHONE: 336-398-5060	<u>знеет</u> 3 of 14	<u>DATE</u> 6/15/2023		KIEWIT INFRA SOUTH CENTRAL	TAYLOR SEMICONDUCTOR CHIP MANUFACTURING PLANT EXP	REPRESENTED BY THEM IS PROHIBITED WITHOUT THE EXPRESS WRITTEN CONSENT OF UNITED RENTALS.	EXISTING STRUCTURES	50' 50'	2023-06-15 UNITED RENTALS (NORTH AMERICA), INC. COA# F-4810



MAX 2' OF EXPOSED SOIL ALLOWED. IF SLOUGHING OR RAVELING OCCURS, 1" THICK STEEL PLATES ARE TO BE USED TO SHORE EXPOSED SOIL. INSTALL OCTAGONAL MANHOLE SHIELD AT PLANNED MANHOLE LOCATIONS

PLAN VIEW-PHASE C SCALE: 1/4" = 1'-0" (1:48)

NOTE: ALL SOIL LINES REMOVED FROM PLAN VIEW(S) FOR CLARITY. WHEN APPLICABLE, SLOPING/BENCHING LINES WILL BE SHOWN IN SECTION VIEW(S). SETBACK TABLE

(SEE NOTE 15) DESCRIPTION

CRANE TO 30 TON MAX

30 TON EXCAVATOR

70 TON EXCAVATOR

90 TON EXCAVATOR

DISTANCE

8'

6'

10'

12'

SEAL:

	DRAWING NUMBER     REVISION       EGR230954		REVISION DATE	ATE TITLE SHORING DESIGN PLAN	PROJECT LOCATION TAYLOR , TX	COPYRIGHT NOTICE	3 CY LOADER     4'       5 CY LOADER     6'       DUMP TRUCK     5'	4' 6' 5'	136382
Rentals ENGINEERING DEPARTMENT 78 OAK BRANCH DRIVE GREENSDORO, NC 27407 PHONE: 336-398-5060	DRAWN WAT SHEET 4 of 14	<u>снескер</u> КН <u>рате</u> 6/15/2023		CUSTOMER KIEWIT INFRA SOUTH CENTRAL	PROJECT NAME TAYLOR SEMICONDUCTOR CHIP MANUFACTURING PLANT EXP	COPYRIGHT IS RETAINED BY UNITED ENTLAS FROM THE DATE OF ISSUANCE OF INSES DOCUMENTS. DUPUCATION OF THESE DOCUMENTS. OR THE WORK REPRESENTED BY THEM IS PROHIMED WITHOUT THE EXPRESS WRITEN CONSENT OF UNITED RENTALS.	SPOIL PILE (4' TALL) CONCRETE TRUCK RAILROAD TRACK Q EXISTING STRUCTURES HS20-44 VEHICULAR TRAFFIC	4' 10' 100' 50' 50'	2023-06-15 UNITE RENALS (NORTH AMERICA), INC. COAR F-4810

