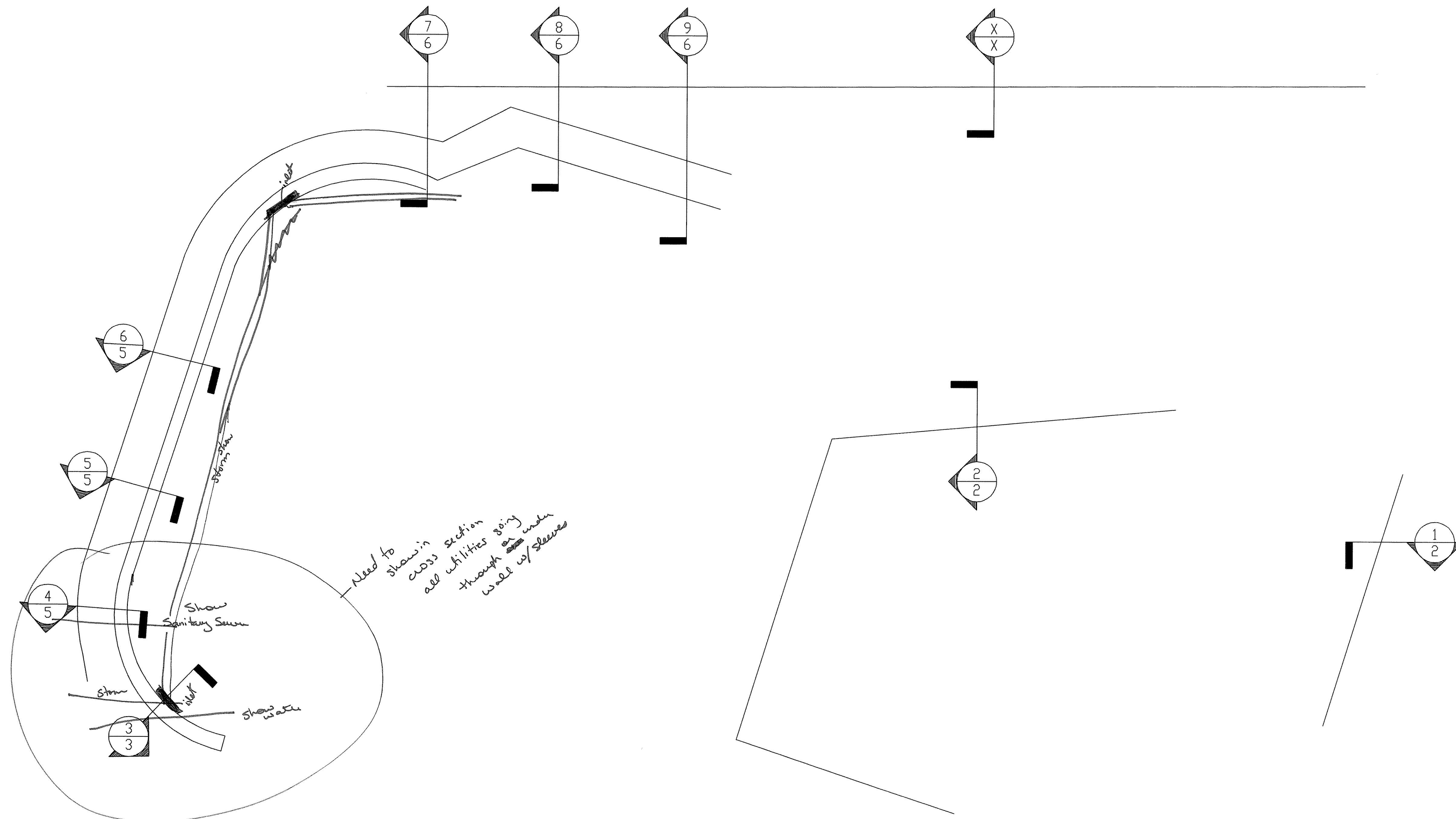


WILKINSON COMMONS RETAINING WALLS LA JOLLA POINTE DRIVE AND I-30 ROCKWALL, TEXAS.



REV	BY	DATE

MANUAL COMP

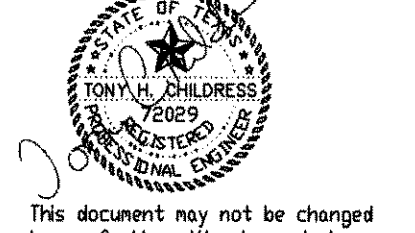
Chilcress Engineering Services, Inc.
 2505 North Plano Road, Suite 1200
 Richardson, Texas 75082
 Office: (214) 451-6630 Fax: (214) 451-6631



WILKINSON COMMONS
 LA JOLLA POINTE DRIVE AND I-30
 ROCKWALL, TEXAS
 RETAINING WALLS

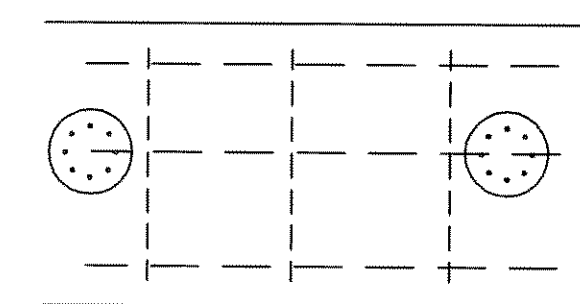
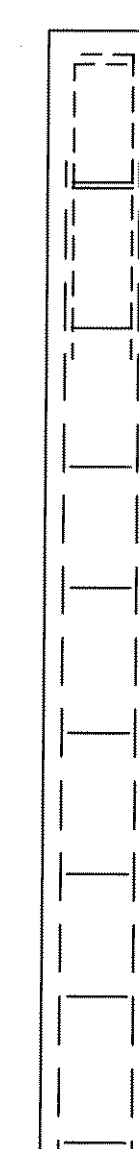
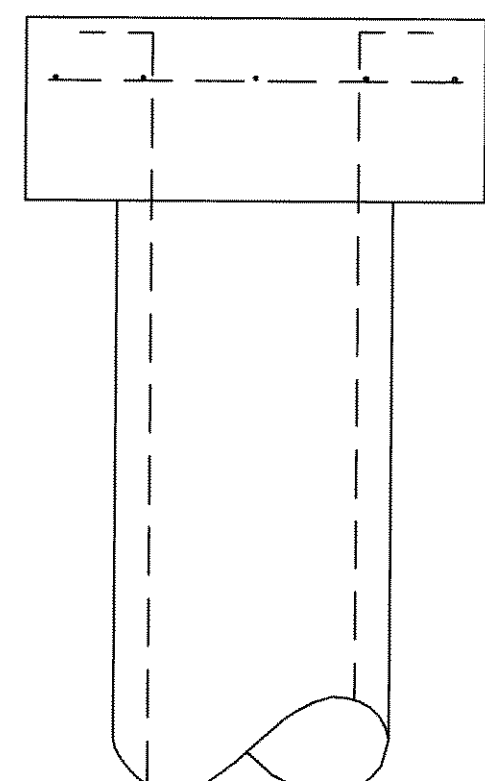
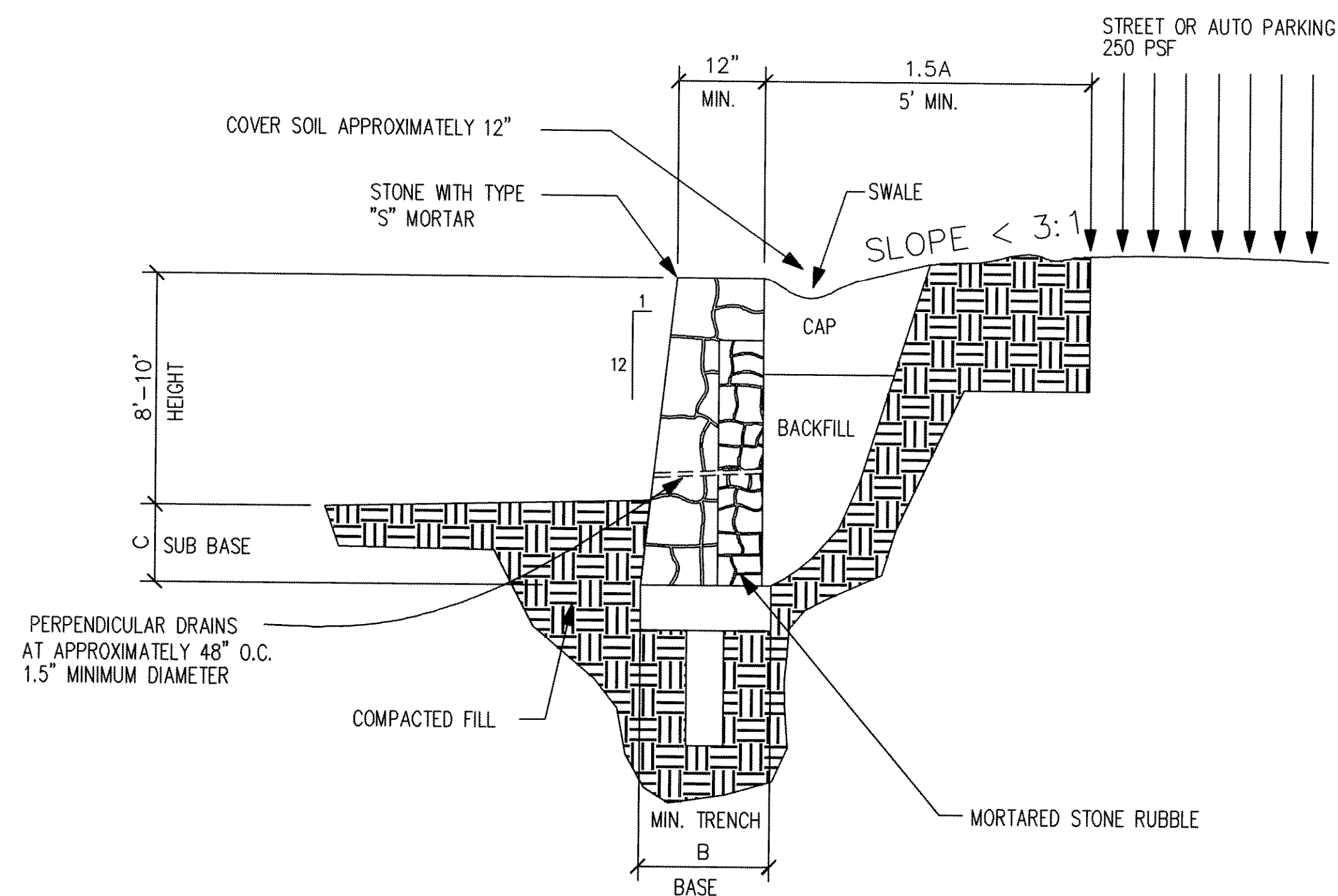
PROJECT NO:	
DRAWN THC	DATE 08-04-07
SCALE 1/4"=1'-0"	
DRAWING NO.	
SHEET 1 of 6	

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INSPECTION OF RETAINING WALL TO OCCUR FOLLOWING CONSTRUCTION OF WALL, PLACEMENT OF FILTER FABRIC, AND PLACEMENT OF DRAINPIPE BUT BEFORE PLACEMENT OF GRAVEL.



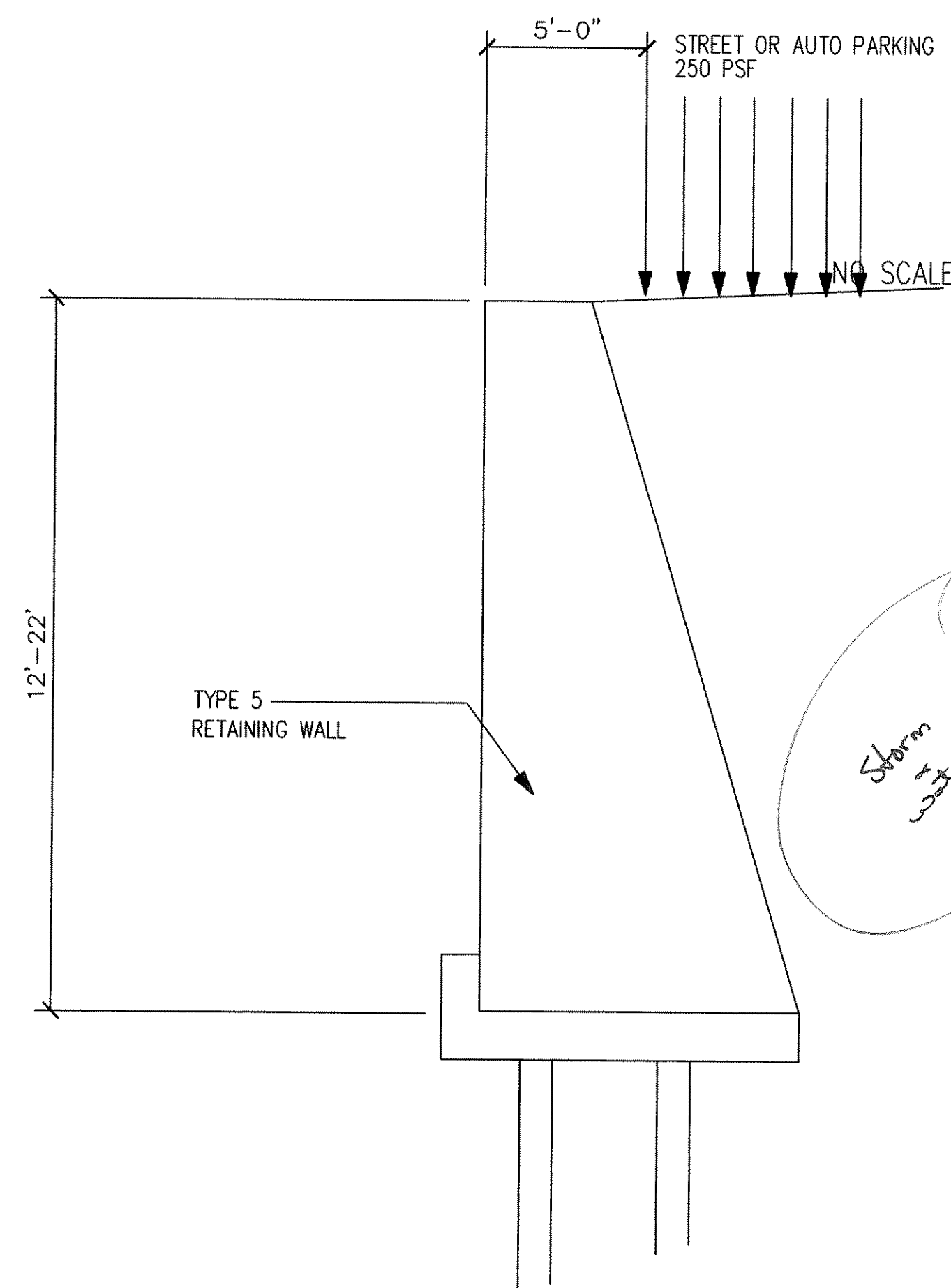
PIERS WALL SCHEDULE			
H	2'to4'	4'to6'	6'to8'
B	18"	24"	30"
D	12"	12"	12"
L	15.0'	15.0'	15.0'
S	5.0'	5.0'	5.0'

MATERIALS

1. ALL MORTAR - SHALL BE TYPE 'M' 2,500 PSI @ 28 DAYS.
2. STONE - FACE STONE & PATTERN SHALL BE APPROVED BY OWNER. MINIMUM COMPRESSIVE STRENGTH = 5000 PSI.
3. DRAIN - CONTINUOUS 3/4" X 3" ANGULAR GRAVEL OR CRUSHED STONE WITH MAX. 12 PERCENT #200 SIEVE SIZE. PROVIDE WITH MIRIAFI 140N FILTER FABRIC COVER OR APPROVED EQUIVALENT. PROVIDE MIN. 2" DIAMETER WEEP HOLES @ MAX. 10' SPACING.
4. DRAIN CAP - MOIST NATIVE SOIL GRADED, COMPACTED AND SEALED TO REDUCE INFILTRATION OF RUNOFF. USE EQUIPMENT AND METHODS THAT WILL NOT DAMAGE WALLS.
5. CONTROL JOIST - SHALL BE PROVIDED @ 25' MAXIMUM SPACING.
6. BACK FILL - STONE RUBBLE MIXED WITH MOIST NATIVE SOIL AND COMPACTED SUFFICIENTLY TO PREVENT SINK HOLES AND LOW SPOTS.

④ TYPE 4 STANDARD GRAVITY RETAINING WALL / WITH PIERS

**PIERS & CONCRETE FOOTING DESIGN
PENDING FINIAL GEOTECHNICAL DATA**



SPECIFICATION TABLE - WITH SURCHARGE CONSIDERATION

HEIGHT (A)	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'	23'
BASE (B)	1'	1'-2"	1'-8"	2'-6"	3'	3'-6"	4'	5'	2'-6"	3'	3'-6"	4'
SUB BASE (C)	6"	6"	6"	1'	1'	1'	1'	1'	1'	1'	1'-6"	2'

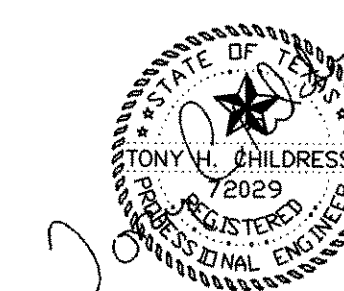
⑤ TYPE 5 STANDARD GRAVITY RETAINING WALL / WITH PIERS
NO SCALE

Storm water casing ?

SOIL DATA
EQUIV. FLUID PRESSURE = 30 PCF
FRICTION = 0.25
FACTOR OF SAFETY = 1.5
ALLOWABLE BEARING = 1500

TO BE VERIFIED PER SOIL REPORT.

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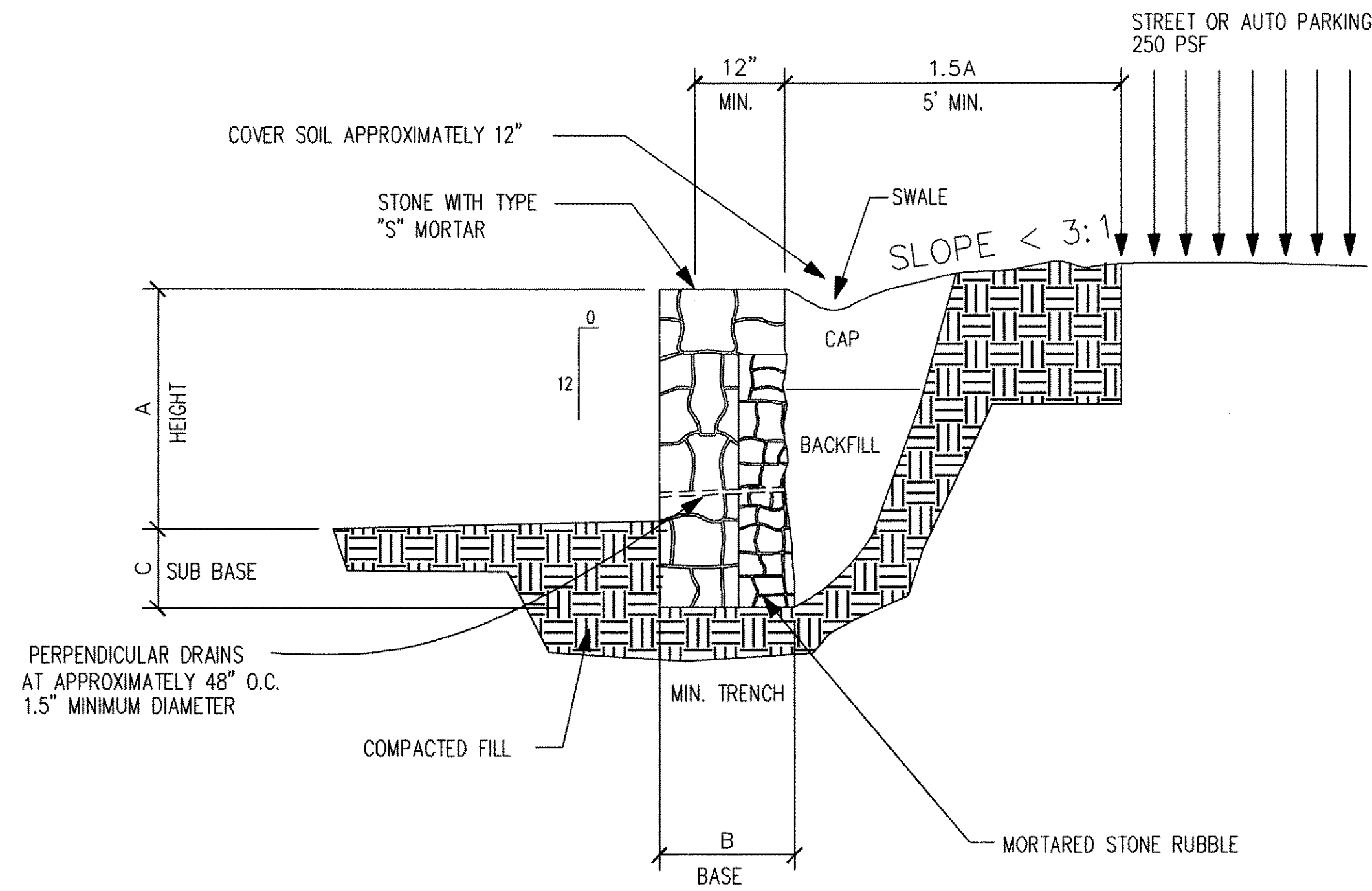
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PROJECT NO. _____
 DRAWN: THC DATE: 08-04-07
 SCALE: 1/4" = 1'-0"
 DRAWING NO. _____
 SHEET: 4 of 6

WILKINSON COMMONS
 LA JOLLA POINTE DRIVE AND I-30
 ROCKWALL, TEXAS
 RETAINING WALLS

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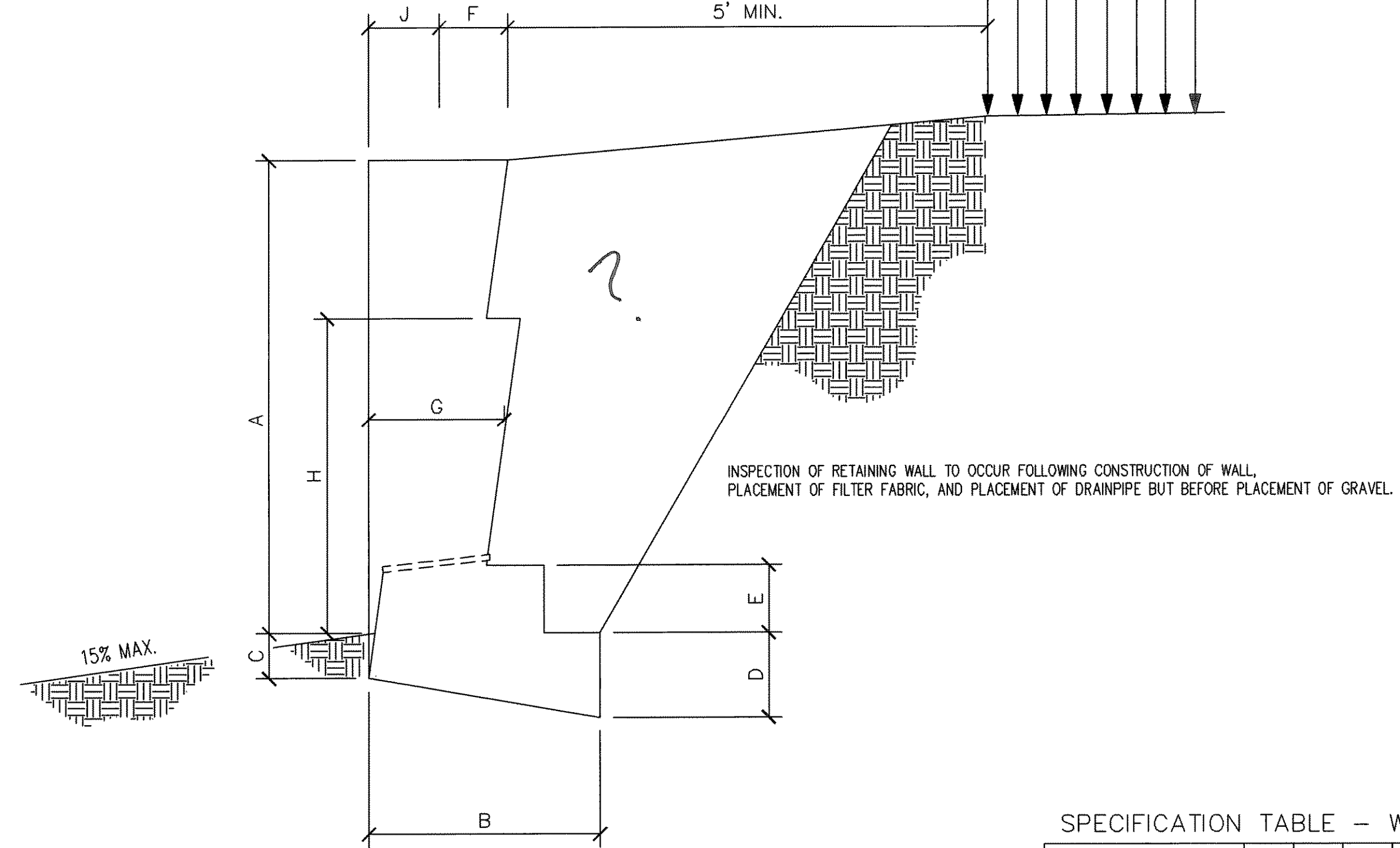
INSPECTION OF RETAINING WALL TO OCCUR FOLLOWING CONSTRUCTION OF WALL, PLACEMENT OF FILTER FABRIC, AND PLACEMENT OF DRAINPIPE BUT BEFORE PLACEMENT OF GRAVEL.



SPECIFICATION TABLE - WITH SURCHARGE CONSIDERATION

HEIGHT (A)	2'	3'	4'	5'	6'	7'	8'	9'	10'	12'	15'
BASE (B)	1'	1'-6"	2'-6"	3'	3'-6"	4'-3"	5'-0"	5'-9"	6'-6"	8'	10'
SUB BASE (C)	6"	6"	1'	1'	1'-6"	2'	2'	2'-6"	3'	4'	

③ TYPE 3 VERTICAL FACE GRAVITY RETAINING WALL / WITH SURCHARGE
NO SCALE

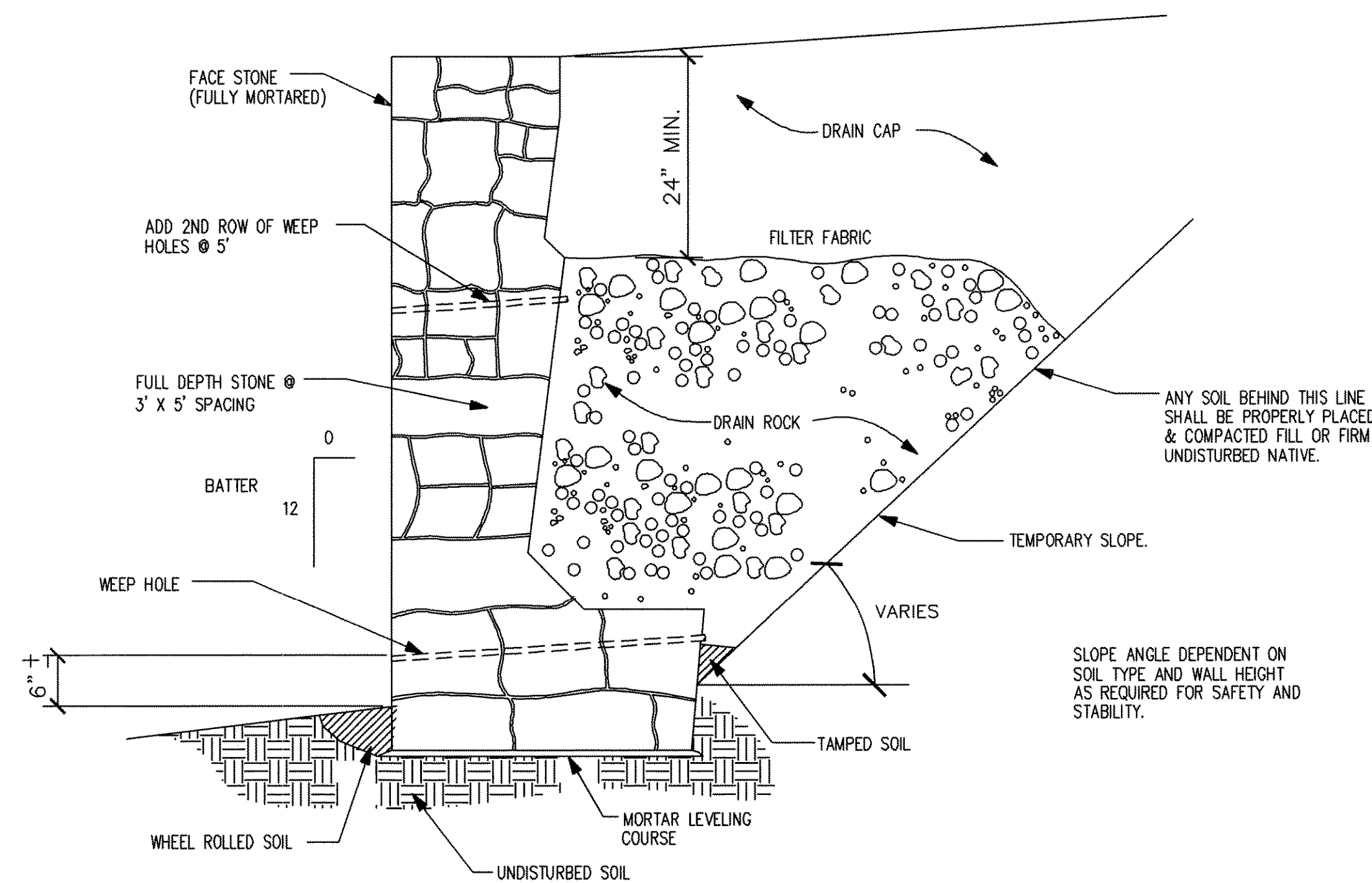


SPECIFICATION TABLE - WITH SURCHARGE CONSIDERATION

HEIGHT (A)	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'
BASE (B)	24"	28"	36"	40"	48"	58"	62"	72"	84"	96"	108"	120"
EMBEDMENT (C)	6"	6"	8"	8"	10"	12"	16"	16"	18"	20"	26"	32"
EMBEDMENT (D)	10"	10"	12"	14"	18"	20"	24"	28"	32"	38"	46"	52"
CHAMFER (E)	6"	6"	12"	12"	16"	24"	38"	50"	54"	60"	63"	66"
CAP WIDTH (F)	12"	12"	12"	12"	12"	12"	12"	12"	12"	14"	14"	14"
STEM WIDTH (G)	12"	14"	16"	18"	20"	20"	20"	20"	24"	36"	46"	54"
STEM HEIGHT (H)	32"	40"	48"	56"	64"	72"	80"	88"	96"	104"	112"	120"
BATTER (J)	7"	8.5"	10"	11.5"	13"	15"	16"	18"	20"	21"	23"	24"

③ TYPE 3 VERTICAL FACE TRW CUSTOM RETAINING WALL / WITH SURCHARGE
NO SCALE

which wall is where?



Ⓐ GENERAL CONSTRUCTION RETAINING WALL
NO SCALE

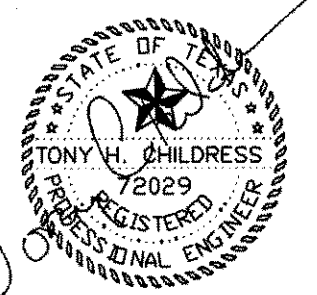
MATERIALS

- ALL MORTAR - SHALL BE TYPE 'M' 2,500 PSI @ 28 DAYS.
- STONE - FACE STONE & PATTERN SHALL BE APPROVED BY OWNER. MINIMUM COMPRESSIVE STRENGTH = 5000 PSI.
- DRAIN - CONTINUOUS 3/4" X 3" ANGULAR GRAVEL OR CRUSHED STONE WITH MAX. 12 PERCENT #200 SIEVE SIZE. PROVIDE WITH MIRAFI 140N FILTER FABRIC COVER OR APPROVED EQUIVALENT. PROVIDE MIN. 2" DIAMETER WEEP HOLES @ MAX. 10' SPACING.
- DRAIN CAP - MOIST NATIVE SOIL GRADED, COMPACTED AND SEALED TO REDUCE INFILTRATION OF RUNOFF. USE EQUIPMENT AND METHODS THAT WILL NOT DAMAGE WALLS.
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SOIL DATA	
EQUIV. FLUID PRESSURE = 30 PCF	TO BE VERIFIED PER SOIL REPORT.
FRICITION = 0.25	
FACTOR OF SAFETY = 1.5	
ALLOWABLE BEARING = 1500	

③ WALL SECTIONS
NO SCALE

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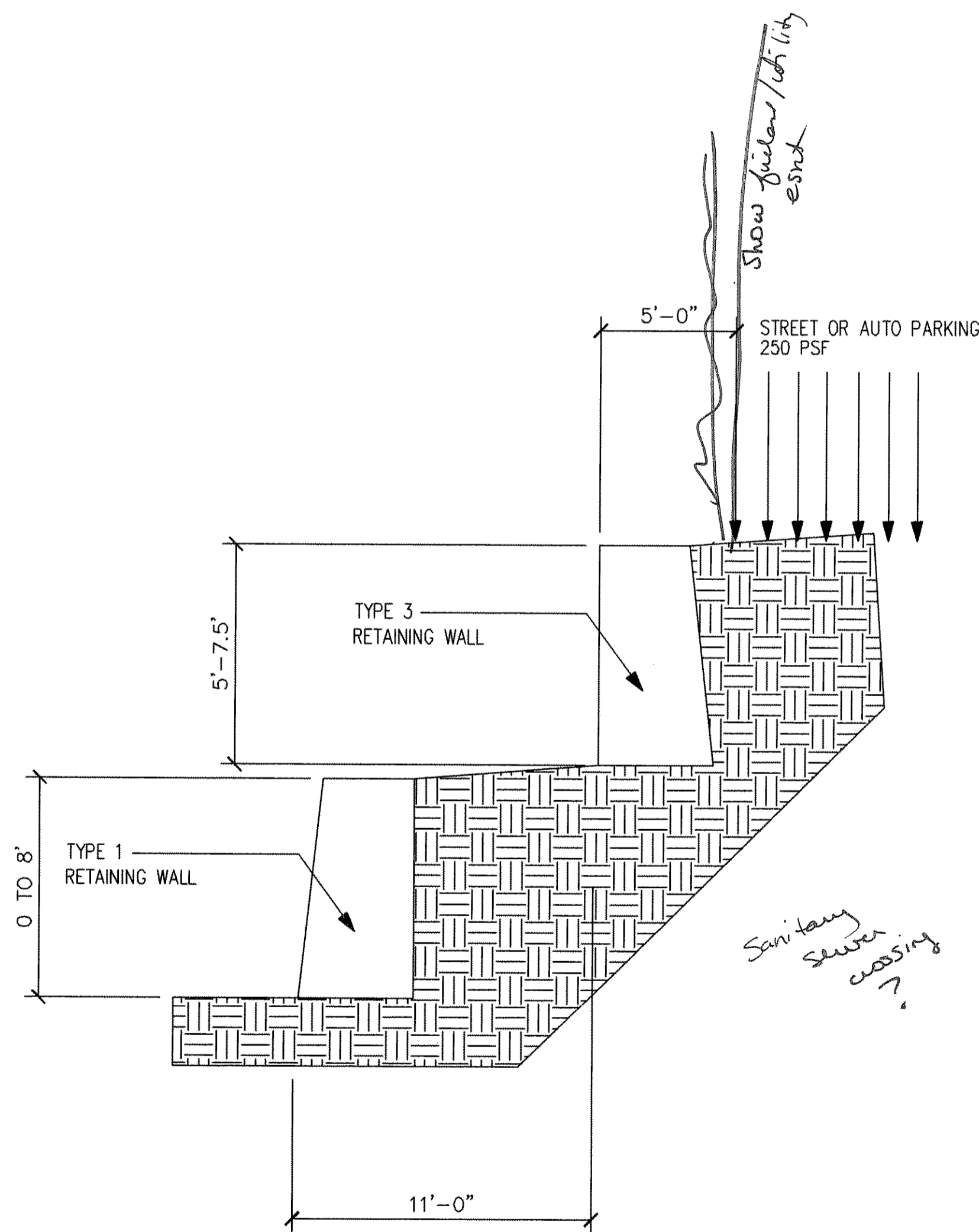
MANUAL COMP

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2505 North Plano Road, Suite 1200
Richardson, Texas 75082
DF: ficer(214) 451-6630 Fax: (214) 451-6631

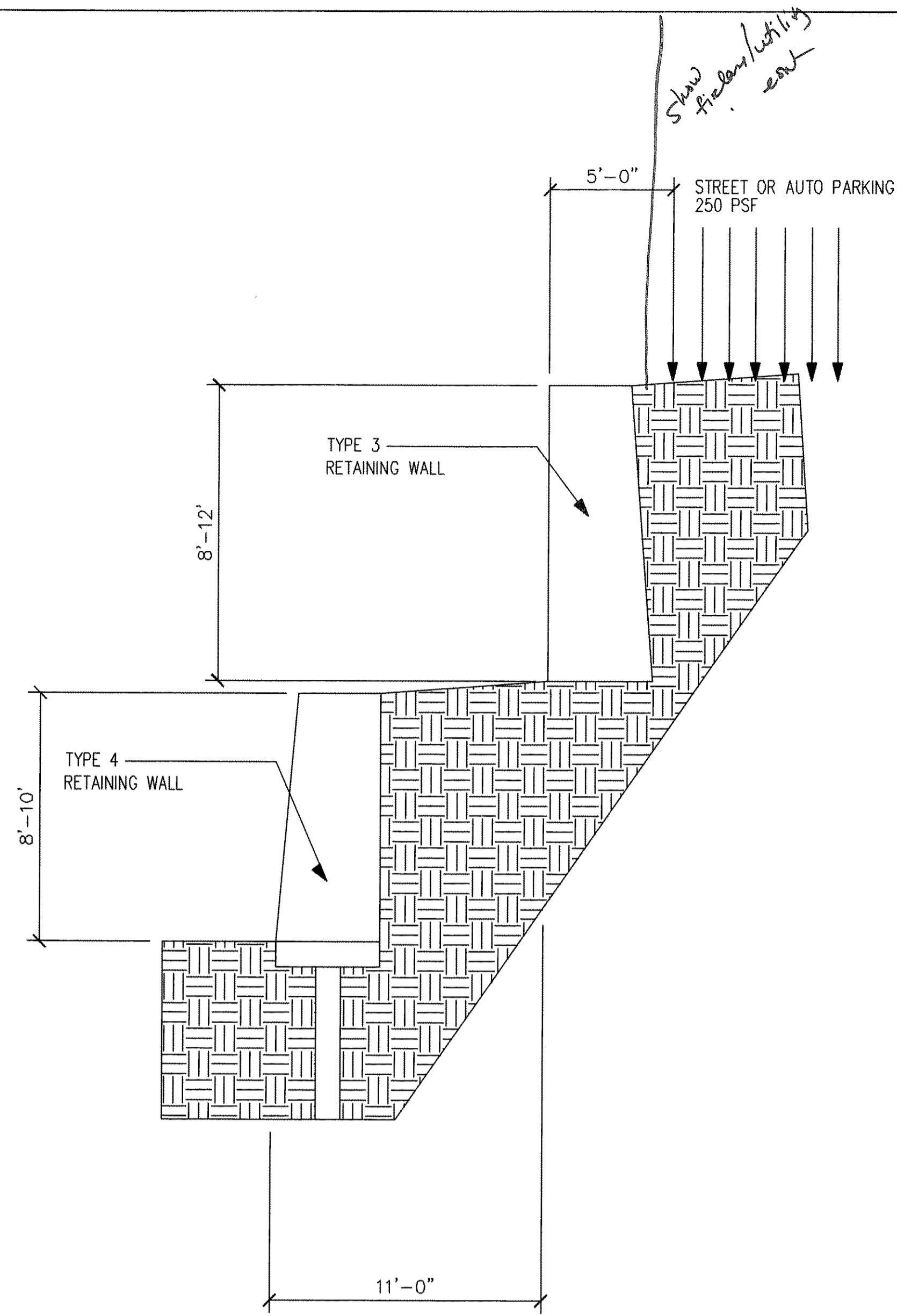


WILKINSON COMMONS
LA JOLLA POINTE DRIVE AND I-30
ROCKWALL, TEXAS
RETAINING WALLS

PROJECT NO.	
DRAWN	DATE
THC	08-04-07
SCALE	
1/4"=1'-0"	
DRAWING NO.	
SHEET	
3 of 6	

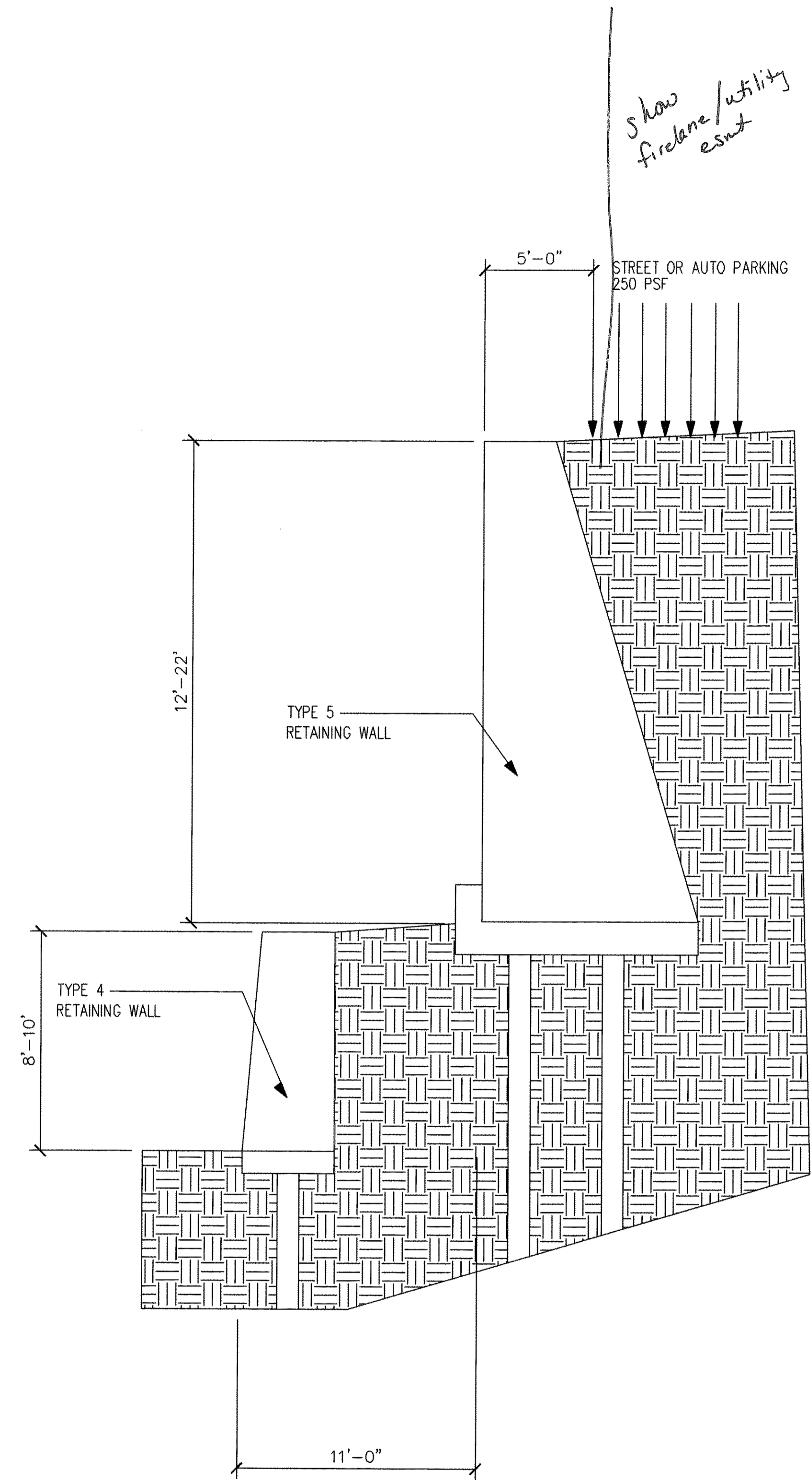


4 WALL SECTIONS
NO SCALE



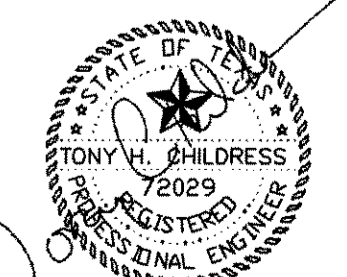
5 WALL SECTIONS
NO SCALE

*Add Note:
No part of the
wall shall be
in an easement...
for trip, fire lanes... etc*



6 WALL SECTIONS
NO SCALE

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WILKINSON COMMONS
LA JOLLA POINTE DRIVE AND I-30
ROCKWALL, TEXAS
RETAINING WALLS

PROJECT NO:	
DRAWN	DATE
THC	08-04-07
SCALE	1/4" = 1'-0"
DRAWING NO.	
SHEET	5 of 6