## CITY OF ALBUQUERQUE



February 16, 2018

David Soule, P.E. Rio Grande Engineering PO Box 93924 Albuquerque, NM 87199

RE: 5501 Bell Ave SE Request for Certificate of Occupancy – Permanent Hydrology Final Inspection – Accepted Engineer's Stamp Date 7/6/17 (L18D082) Certification Dated: 2/13/18

Dear Mr. Soule,

PO Box 1293

Based on the certification received 2/13/18, this submittal is approved for release of Certificate of Occupancy (Permanent) by Hydrology.

If you have any questions, you can contact me at 924-3695 or dpeterson@cabq.gov.

Albuquerque

NM 87103

Sincerely,

www.cabq.gov

Dana Peterson, P.E. Senior Engineer, Planning Dept. Development and Review Services

C: Email

Serna, Yvette M.; Fox, Debi; Tena, Victoria C.; Sandoval, Darlene M.

## PRIVATE DRAINAGE IMPROVEMNET IN PUBLIC ROW NOTICE TO CONTRACTORS

Notice to Contractor (Special Order 19 ~ "SO-19")

- 1. An excavation permit will be required before beginning any work within City Right-Of-Way.
- 2. All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
- 3. Two working days prior to any excavation, the contractor must contact New Mexico One Call, dial "811" [or (505) 260-1990] for the location of existing utilities
- 4. Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- 5. Backfill compaction shall be according to traffic/street use.
- 6. Maintenance of the facility shall be the responsibility of the owner of the property being served.
- Work on arterial streets shall be performed on a 24-hour basis. Prior to pouring concrete, contractor shall notify the storm drain inspector, 857-8074, to inspect reinforcement.
  - BEGIN WATER QUALITY SWALE DATE APPROVAL NAME INSPECTOR

PENDING EMAIL FROM JASON RODRIGUEZ

BUILD WATER QUALITY POND TOP=5277.60 BOTTOM=5277.27 PROPOSED VOLUME=19 CU. FT.

POND INCREASED DUE TO HANDICAP SPACE BLOCKING FLOW TOP=78.00 BOT=77.26 460SF BASIN=82 CF PROVIDED

TURN BLOCK @ 5277.90\_

BUILD WATER QUALITY POND PROPOSED VOLUME=109 CU. FT.

SOUTH BASIN         1000 000         1000 000         10000 000         10000 0000         10000 0000         10000 0000         10000 0000         10000 0000         100000         100000         100000         100000         100000         100000         1000000         100000         10000000	Basin         Area         Greatment A         Treatment B         Treatment B         Treatment B         Weighted E         Volume         Flow         Volume         Garces)         %         Garces)	Basin       Area       Treatment A       Treatment A       Treatment C       Treatment D       Weighted E       Volume       Flow       Volume	SOUTH BASIN NORTH BASIN EXISTING Equations: Veighted E = Ea*Aa + Eb*Ab + Ec /olume = Weighted D * Total Area	(sf) 4393 9003 13396 *Ac + Ed*Ad / c + Qd * Ad zone 3)	(acres) 0.101 0.207 0.308	% 0% 0%	(acres) 0 0	% 24.0% 17.0%	(acres) 0.024 0.035	% 17.0% 6.0%	(acres) 0.01714 0.0124	% 59% 77%	t D (acres) 0.060 0.159	Weighted E (ac-ft) 1.833 2.051	Volume (ac-ft) 0.015 0.035	Flow cfs 0.42 0.93	Volume (ac-ft) 0.018 0.042	PROPOSED
Image: South BASIN         (a)	Image: South BASIN         (g)         Leares by         Leares by         Leares by         Leares by         Leares by         Lear b	(b)         (acres)         (b)         (acres)         (c)         (acres)         (c)         (acres)         (c)	SOUTH BASIN NORTH BASIN EXISTING Equations: Veighted E = Ea*Aa + Eb*Ab + Ec /olume = Weighted D * Total Area	(sf) 4393 9003 13396 *Ac + Ed*Ad / c + Qd * Ad zone 3)	(acres) 0.101 0.207 0.308	% 0% 0%	(acres) 0 0	% 24.0% 17.0%	(acres) 0.024 0.035	% 17.0% 6.0%	(acres) 0.01714 0.0124	% 59% 77%	(acres) 0.060 0.159	(ac-ft) 1.833 2.051	(ac-ft) 0.015 0.035	cfs 0.42 0.93	(ac-ft) 0.018 0.042	
NORTH BASIN         9033         0.207         0%         0         17.0%         0.038         0	NORTH BASIN         9003         0.207         0%         0         17.0%         0.038         0.0714         77.%         0.159         2.051         0.038         0.933         0.042           EXISTING         13396         0.308         0.308         0.308         0.308         0.038         0.038         0.038         0.042           Excutions:         Weighted E EarAa + EbrAb + EcrAc + EdrAd / (Total Area)         P	NORTH BASIN EXISTING         9003 1336         0.207         0.9%         0         17.0%         0.038         0.0124         177%         0.159         2.051         0.038         0.933         0.042           Autions:           Bardians:           Gene and the set of the	NORTH BASIN EXISTING Equations: Veighted E = Ea*Aa + Eb*Ab + Ec /olume = Weighted D * Total Area Flow = Qa * Aa + Qb * Ab + Qc * A	9003 13396 *Ac + Ed*Ad / c + Qd * Ad zone 3)	0.207 0.308	0% 0%	0	17.0%	0.035	6.0%	0.0124	77%	0.159	2.051	0.035	0.93	0.042	
EXISTING         1338         0.08         0 %         0 74.0%         0.228         26.0%         0.07996         0%         0.000         1.016         0.026         0.87         0.028         East           Equations:         Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)         PRO         PRO<	EXISTING       13386       0.308       0%       0       74.0%       0.228       26.0%       0.000       1.016       0.026       0.87       0.026         Exautions:       Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)       P         Volume = Weighted D * Total Area       Fiber 0 0* Ab + 0c * Ac + 0d * Ad       P         Write for 100-year. 6-hour storm (zone 3)       Ea* 0.66       Qar = 1.87       Ea* 0.26       Qar = 2.45         EA*2.36       Qar = 4.67       Qar = 2.6       Qar = 2.6       Qar = 2.6       Qar = 2.6         POPOSED       0.394       Qar = 4.67       Qar = 4.67       Qar = 4.67       Qar = 4.67         ONSITE Conditions       FIRST FLUSH WATER QUALITY VOLUME       REQUIRED       PROVIDED       (CF)       (CF)         VATER QUALITY       270       808       PLOOD CONTROL (SOUTH BASIN)       779       789         Narrative       This site is an infill lot within an fully developed subdivision. The existing lot sall free discaringe. Due to existing graded slopes, the existing lot drains to the rear. The plan will direct the north portion of the lot to the adjacent roadway. The southern half of the building shall be retained onsite. The required water harvest volume generated by the site is retained onsite. The site currently discharges.87 cfs and the developed flow rate will be .93 cfs. Upland flows do not effect the site. <td>EXISTING       1336       0.308       0%       0       74.0%       0.228       26.0%       0.000       1.018       0.026       0.87       0.028         auations:       wighted E = EarAa + EbrAb + EcrAc + EdrAd / (Total Area)       PRC         Jume = Weighted D * Total Area       0x = 0.87       0.026       0.87       0.026       0.87       0.028</td> <td>EXISTING Equations: Veighted E = Ea*Aa + Eb*Ab + Ec /olume = Weighted D * Total Area Flow = Qa * Aa + Qb * Ab + Qc * A</td> <td>13396 *Ac + Ed*Ad / c + Qd * Ad zone 3)</td> <td>0.308</td> <td>0%</td> <td></td>	EXISTING       1336       0.308       0%       0       74.0%       0.228       26.0%       0.000       1.018       0.026       0.87       0.028         auations:       wighted E = EarAa + EbrAb + EcrAc + EdrAd / (Total Area)       PRC         Jume = Weighted D * Total Area       0x = 0.87       0.026       0.87       0.026       0.87       0.028	EXISTING Equations: Veighted E = Ea*Aa + Eb*Ab + Ec /olume = Weighted D * Total Area Flow = Qa * Aa + Qb * Ab + Qc * A	13396 *Ac + Ed*Ad / c + Qd * Ad zone 3)	0.308	0%												
Equations:       PRO         Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)       PRO         Volume = Weighted D * Total Area       Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad         Where for 100-year, 6-hour stom (zone 3)       Qa = 1.87         Eb = 0.82       Qb = 2.6         Ec = 1.29       Qc = 3.45         E = 2.68       Qd = 5.02         DISCHARGE FROM SITE       Existing         EXISTING       0.81         FIRST FLUSH WATER QUALITY VOLUME       REQUIRED         (CF)       (CF)         VATER QUALITY       270         270       8.08         FLOOD CONTROL (SOUTH BASIN)       779         789         Narrative         This site is an infill lot within an fully developed subdivision. The existing lots all free discaringe. Due to existing graded slopes, the existing lot drains to the rear. The plan will direct the north portion of the lot to the adjacent roadway. The southern half of the building shall be retained onsite. The required water harvest volume generated by the site is retained onsite. The site currently discharges .87 cfs and the developed flow rate will be .93 cfs. Upland flows do not effect the site.	Equations:       P         Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)       P         Volume = Weighted D * Total Area       Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad         Where for 100-year, 6-hour storm (zone 3)       Ea = 0.66       Qa = 1.87         Eb = 0.92       Qb = 2.6       Ec = 1.29       Qc = 3.45         Ec = 1.29       Qc = 3.45       Ec = 2.36       Qd = 5.02         DISCHARGE FROM SITE       Exit = 2.36       Qd = 5.02         PROPOSED       0.94       P       ONSITE Conditons         FIRST FLUSH WATER QUALITY VOLUME       REQUIRED       PROVIDED         (CF)       (CF)       (CF)         WATER QUALITY       270       806         FLOOD CONTROL (SOUTH BASIN)       779       789         Narrative       This site is an infill lot within an fully developed subdivision. The existing lots all free discabries. Due to existing graded slopes, the existing lot drains to the rear. The plan will direct the north portion of the lot to the adjacent roadway. The southern half of the building shall be retained onsite. The required water harvest volume generated by the site is retained onsite. The site currently discharges .87 cfs and the developed flow rate will be .93 cfs. Upland flows do not effect the site.         CLUTION:       Edu       Edu       Edu currently discharges .87 cfs and the developed flow rate will be .93 cfs. Upland flows do not effect the site.	autions:       PRC         leighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)       PRC         obume = Weighted D <sup>+</sup> Total Area       Ow = 0a * Aa + Qb * Ab + Qc * Ac + Qd * Ad         here for 100-year, 6-hour storm (zone 3)       Ear 0.66       Qa = 1.87         Ebe 0.32       Qb = 2.6       Ec = 1.29       Qc = 3.45         Ed = 2.36       Qd = 5.02       Schart 2.6       Ec = 1.29       Qc = 3.45         Ed = 2.36       Qd = 5.02       Schart 2.6       Ec = 1.29       Qc = 3.45         Ed = 2.36       Qd = 5.02       Schart 2.6       Ec = 1.29       Qc = 3.45         Ed = 2.36       Qd = 5.02       Schart 2.6       Ec = 1.29       Qc = 3.45         NOPOSED       0.34       NSITE Conditions       NSITE Conditions       NSITE Conditions         REST FLUSH WATER QUALITY       270       808       NoPOSED       NoPOSED       Schart 2.7       Schart 2.6	Equations: Veighted E = Ea*Aa + Eb*Ab + Ec /olume = Weighted D * Total Area Flow = Qa * Aa + Qb * Ab + Qc * A	*Ac + Ed*Ad / c + Qd * Ad zone 3)			<u>                                     </u>	74.0%	0.228	20.0%	0.07996	0%	0.000	1.016	0.028	0.07	0.026	
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Ea 0.66       Qa 1.87         Eb 0.92       Qb 2.6         Ec 1.29       Qc 3.45         Ed 2.36       Qd 5.02         DISCHARGE FROM SITE       EXISTING         EXISTING       0.87         PROPOSED       0.94         ONSITE Conditons       FIRST FLUSH WATER QUALITY VOLUME         FIRST FLUSH WATER QUALITY VOLUME       PROVIDED         (CF)       (CF)         WATER QUALITY       270       808         FLOOD CONTROL (SOUTH BASIN)       779       789         Narrative       This site is an infill lot within an fully developed subdivision. The existing lots all free discahrge. Due to existing graded slopes, the existing lot drains to the rear. The plan will direct the north portion of the lot to the adjacent roadway. The southern half of the building shall be retained onsite. The required water harvest volume generated by the site is retained onsite. The site currently discharges .87 cfs and the developed flow rate will be .93 cfs. Upland flows do not effect the site.	Ear 0.66       Qar 1.87         Discharge FROM SITE       0.52         EXISTING       0.67         PROPOSED       0.54         ONSITE Conditons       FIRST FLUSH WATER QUALITY VOLUME         REQUIRED       PROVIDED         (CF)       (CF)         WATER QUALITY       270         808         FLOOD CONTROL (SOUTH BASIN)       779         789         Narrative	Ear 0.66       Qar 1.87         Ebr 0.92       Qbr 2.6         Eor 1.29       Qor 3.45         Ed 2.36       Qdr 5.02         ISCHARGE FROM SITE NISTING       0.87         NSITE Conditons       0.87         IRST FLUSH WATER QUALITY VOLUME (CF)       PROVIDED (CF)         ATER QUALITY       270       808         LOOD CONTROL (SOUTH BASIN)       779       789         arrative	Where for 100-year, 6-hour storm (															
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CAUTION:		EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY					,											
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	EXISTING UTILITIES ARE NOT SHOWN.	IT SHALL BE THE SOLE RESPONSIBILITY																
		OF THE CONTRACTOR TO CONDUCT ALL																
		NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE																

I David Soule, NMPE 14522, of the firm Rio Grande Engineering, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intend of the approved plan dated <sup>7/6/17</sup>. The record information edited on the original design document has performed by me or under my direct supervision and is true and correct to the best of my knowledge and belief. The asbuilt survey was provided by will plotner 14271 . The certification is submitted in support of a request for PERMANENT CERTIFICATE OF OCCUPANCY. The record information presented heron is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose

## EROSION CONTROL 1. CONTRACTOR IS RESPONSIBLE PERMIT PRIOR TO BEGINNING WO

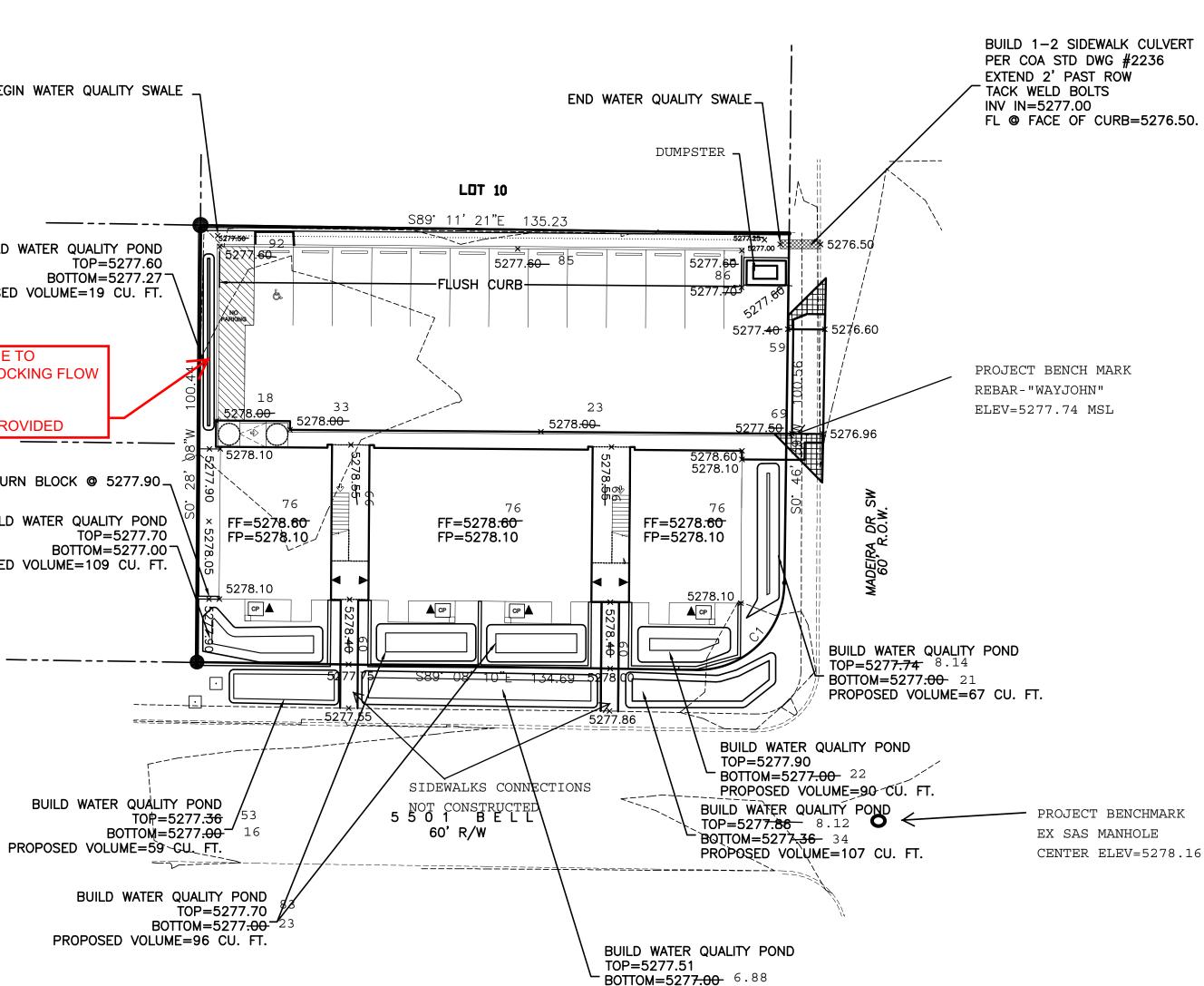
2. CONTRACTOR IS RESPONSIBLE CONSTRUCTION.

3. CONTRACTOR IS RESPONSIBLE INTO EXISTING RIGHT-OF-WAY.

4. REPAIR OF DAMAGED FACILITIE ACCUMULATIONS ON ADJACENT RESPONSIBILITY OF THE CONTRAC

5. ALL EXPOSED EARTH SURFACE WATER EROSION PRIOR TO FINAL





PROPOSED VOLUME=165 CU. FT.

		ZUINI         SP-80-210         LD-73-280           SP-80-210         1003578         /1         /2         13	
		$\begin{array}{c} \text{SP-69-249} \\ C-1 \\ \underline{21} \\ \underline{A1A} \end{array} \xrightarrow{\begin{tabular}{c}{c}} 131 \\ \underline{C-1} \\ \underline{C-1} \\ \underline{C+1} \\$	24 1 1 C-1 1A 1 PORTION OF 7 11007487 1007487 1007487 100757 100757 100757 100757 100757 100757 100757
_ NOTES: .e for obtaining a topsoil disturbance			
/ORK.		RB   B3   R3   R3     10   10   10     \$BARON   BURG	RI3         A1B         R-3           1007652         1007652           13         12           184         3000000000000000000000000000000000000
E FOR MAINTAINING RUN-OFF ON SITE DU		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	24 1 1 22 1 1 22 1 1 22 1 1
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TES AND CLEANUP OF SEDIMENT PROPERTIES AND IN PUBLIC FACILITIES IS ACTOR.		EIGHTS ADDN 11 10 3R-1 12 13 K2 12 11 10	13 12 12 13 10 2
CES MUST BE PROTECTED FROM WIND AND AL ACCEPTANCE OF ANY PROJECT.	3 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	CENTRAL       7     8       9     3       2     3       2     3       2     2       12     24       12     24       12     24	AN PEDRO DBRARPO 2 2 2 2 2 2 3 3 3 3 4 4 4 4 5 5 5 6 10 11 0 1 8 - Z
		日 Name Name Name Name Name Name Name Name	1% ANNUAL C CONFINED TO
· ·	NE X	SITE 1% ANNUAL CHANCE FLOOD CONFINED TO THE STREET SAN MATEO BLVD SE MAP: FM	U35001C0354H
		SCRIPTION:	
=	NOTED. 2. ALL CURB AND NOTED. 3. ALL RETAINING WA	ONS REPRESENT FLOWLINE ELEVATION UNLESS GUTTER TO 6" HEADER UNLESS OTHERWISE ALL DESIGN SHALL BE BY OTHERS.	
		ALLS SHALL HAVE BLOCKS TURNED AT GRADE	
		PAVEMENT NEGATIVELY IMPACTED BY CONSTRUE TO MATCH EXISTING CONDITIONS.	UCTION ACTIVITY
	6. ALL SITE WORK S PUBLIC WORKS CONS	SHALL CONFORM TO CITY OF ALBUQUERQUE ST	ANDARDS FOR
		EVEY PROVIDED BY CONSTRUCTION SURVEY TEC	HNOLOGY USING
6 =	LEGEND		
		EXISTING CONTOUR $$ EXISTING INDEX CONTOUR	
		EXISTING INDEX CONTOUR PROPOSED CONTOUR	
		PROPOSED INDEX CONTOUR	
	1	SLOPE TIE	
	× 4048.25 1• × 4048.25	EXISTING SPOT ELEVATION PROPOSED SPOT ELEVATION	
	• 4046.25	BOUNDARY	
		RIGHT-OF-WAY	
${\cal N}$		PROPOSED CURB	
		EXISTING CURB AND GUTTER	
		PROPOSED SIDEWALK	
	ENGINEER'S		DRAWN
	ENGINEER S SEAL	5501 BELL	BY WCWJ
	CANID SOLIT	GRADING AND	DATE 6-20-17
'II'	THE THE PARTY OF T	DRAINAGE PLAN	21754-layout-6-20-17 SHEET #
GRAPHIC SCALE	PROFESSION AL	Rio Grande	

Lingineering 1606 CENTRAL AVENUE SE

SUITE 201

ALBUQUERQUE, NM 87106

(505) 872-0999

CIVIL102

JOB #

21754

GRA	APH	IC	SCA	ALE
20	10	0	10	20

SCALE:	1"=20'

7/6/17

DAVID SOULE

P.E. #14522