Utility Right of Way Construction Permit



Department of Executive Services Facilities Management Division **Real Estate Services Section** 500 Fourth Ave., Suite 830 Seattle, WA 98104-0237 Permits 206-296-7456 Fax 206-296-0196 Job Starts/Inspections 206-296-8122

	The second s				
Permit No		Job No. <u>383</u> 1	173		Environmental Assessment
Franchise No).	Kroll Pa	ge No.		Date Received Not Required
Date	Section	TWP	F	Range	Existing Assessment Replacement Categorically Exempt
Applicant	Seattle Public Utilities -	DSO - Steve Resnick	Phone No.	206-233-7234	
Address	700 5TH AVE - FLOOR 2	7	ULID No.		
City, State,	ZIP SEATTLE WA 98101		Bond Amou	nt	
		Emergency (Contact Name	SPU - Operatio	ns Response Center
Job Descript	ion & Location	Emergency (Contact Phone I	Number 206-386-1	1800
extension	. Total length of sew	St approximately 10' ver extension is appro Pipe to be installed b	ximately 56	OLF in King Co	unty. See
GIVE DISTAN ALL WATER M ALL UNDERG ALL WORK TO ALL WORK SI	IAIN EXTENSIONS MUST F ROUND UTILITY LINES MU D BE DONE SUBJECT TO T HALL BE PERFORMED IN C	SHT OF WAY ONLY. WITH AN ON. FROM AND TO HAVE APPROVAL FROM THE ST HAVE A MINIMUM 36° CC HE APPROVAL OF THE KING ONFORMANCE WITH KING Wisions, conditions and require	EFIRE MARSHAL OVER. 3 COUNTY ROAI COUNTY ROAD	L. D ENGINEER. STANDARDS.	
Road Departm All work to be to prosecute w issuance of pe specific writter The undersign regulations an	ents" published by County R done in conformity with cond ith all diligence and speed w rmit the grantee shall not hav provisions are made for a re ed, its successors and assig d recommendations herein c	toad Administration Board. itions and requirements of the ith due regard for the rights, in ve in operation said utilities, the	King County Cod terests and conve en the rights here e permit, to comp any utility franchis	le 6.27, 13.24 and 14 enience of the public. ein conferred shall ce ly with the provisions se granted the applic	.44, and the petitioner agrees If at the end of 6 months after ase and terminate, unless , conditions, requirements, ant and under whose
IND maximum exte harmless King judgments, inc incidental to P Indemnification negligence of I defense to the (d) Waiver of t by the parties. this section, al	EMNITY AND HOLD HARML nt possible under law. Accor County, its appointed and el luding cost of defense thered ermittee's exercise of rights a for such claims whether or soth parties, or the negligend County at the Permittee's ov ne Permittee's immunity und In the event it is necessary f such fees, expenses, and c	ESS: The Permittee agrees to dingly, the Permittee agrees for ected officials and employees of, for injury to persons, death,	o indemnify and hi or itself, its success from and against or property dama ermit. The Permi gligence of either (b) The duty to pin of claims made visions of Title 51 's fees, legal expr the Permittee. In	old harmless King Co ssors, and assigns, to liability for all claims age which is caused I ittee's obligations und r the County or the Per romptly accept tende by the Permittee's or RCW, which waiver I enses, or other costs the event it is determ	bunty as provided herein to the o defend, indemnify, and hold , demands, suits, and by, arises out of, or is ler this permit shall include: (a) ermittee, the concurrent r of defense and provide wn employees or agents; and has been mutually negotiated to enforce the provisions of inned that RCW 4.24 115
Application R	eceived	Entered			Permit Fee \$
Permit Issue	d	By (Permit Cler	k)		
1. A King Cour be reimbursed	ity inspector will be assigned to the County monthly by ap	quirements and conditions then to the project for inspection of plicant. Permittee is required to work. Failure to give notice w	f road restoration. o notify King Cou	. Costs of inspection nty Department of Tr	applicable to the project will ansportation at 206-296-8122

against the permittee. This assessment is in addition to any other remedy available under law or equity which the County may wish to pursue and shall not be construed as an election of remedies by the County.

2. All hard surfaced roads to be jacked or bored. Exceptions will be on a case-by-case basis with the express permission of the King County Department of Transportation.

3. One-way traffic at all times. Signs and traffic control will be in accordance with the manual on uniform traffic control devices for streets and highways.

4. Asphalt to be neat-line cut by either saw cutting or jackhammering a continuous line 1 foot back from trench. Restoration as a minimum shall include 6.5" of crushed surfacing material and HMA the same thickness as the existing asphalt pavement or a minimum of 2 inches, whichever is greater.

5. It is the responsibility of the grantee to notify all utility districts and private property owners when such property is liable to injury or damage through the performance of the above work. Call 1-800-424-5555 48 hours in advance for underground utility location. This instruction does not relieve the grantee from *required* notification of County inspectors as specified in paragraph 1, above.

Approved by

Directions Regarding Permits

Note: Right of way shall mean any Street, Avenue, Alley, Road or Lane Public Place shall mean any Bridge, Trestle, or Wharf

Applicants for permits to occupy County property with utilities, or holders of granted franchise rights, who are planning construction work upon, along, over, under or across any County right of way or public place must file an application with the King County Real Estate Services Section, King County Administration Building, 500 Fourth Avenue, Suite 830, Seattle, WA 98104-0237.

The application shall be accompanied by drawings (in triplicate) drawn to working scale, commonly 50 to 100 feet per inch. It shall describe the nature of the work, and show the location of same on a map, giving names, or numbers, and width of roads and streets. It must also show location of work with reference to platted subdivisions, and section, township and range, and must show the location of work relative to existing utility facilities which may be affected. Review of the application must conform to the County Environmental Policy Act (King County Code 20.44).

Applicants shall specify the type of construction in detail by submitting plans which show the class of material and equipment to be used. All such material and equipment shall be of the highest quality. The manner of excavation, filling, construction, installation, erection of temporary structures, traffic turn outs, road obstruction and barricades, shall conform with County standards and shall be approved by the County Engineer in advance of work.

Signs and barricades and traffic control in the vicinity of any work shall conform with provisions of "Part VI Manual of Uniform Traffic Control Devices for Streets and Highways

Before the work is accepted for the County by the County Engineer, all of the direct costs and expenses involved in administering said permit must be paid to the County by the applicant. These include labor charges for examination, inspection and supervision of work in progress by field personnel

Any deviation from the proposed plan, resulting in what is commonly known as the "As Built" location must be approved in advance by the County Engineer. Change notice must show "As Built" position relative to grade line and center line of right of way and any other installations in the right of way.

Permit - Terms and Conditions

1. The grantee, its successors and assigns, is given and granted the right and authority to enter upon the right of way or public place for the purpose of performing the work described in this permit and approved by the County Engineer or the Engineer's agent.

2. Before any work commences the site must be inspected by a County Representative and approved by the County Engineer with respect to: e. Mode of operation of the installed facility

- a. location
- b. type of construction
- f. Manner of maintenance of installed facility
- c. materials and equipment to be installed d. manner of erection or construction
- g. Method of safeguarding public traffic both during working hours and during non-working hours
- while the project is under construction
- 3. After the installation, operation, maintenance, or removal of a utility or facility the grantee shall restore all rights of way and public places to the condition which is equivalent in all respects to the condition they were in before starting work. All work to meet the approval of the County Road Engineer
- 4. In the event that any damage of any kind is caused by the grantee in the course of performing work authorized by this permit, the grantee will repair said damage at its sole cost and expense. Repair work shall begin without delay and continue without interruption until completed. If damage is extensive, the time allowed for repair will be prescribed by the County Engineer or the Engineer's agent.
- 5. The County Engineer, or their representatives may at any time, do, order, or have done any and all work considered necessary to restore to a safe condition any area left by the grantee in a condition dangerous to life or property and upon demand the grantee shall pay to the County all costs of such work, materials, etc.
- 6. When the County deems it advisable to change the alignment or grade of any right of way or public place or structure by widening, grading, regrading, paving, improving, altering or repairing same, the grantee upon written notice by the County Engineer or the Engineer's representatives will at its own sole cost and expense, raise, lower, move, change or reconstruct such installations to conform with the plans of work contemplated or ordered by the County Engineer according to a time schedule contained in the written notice.
- 7. Penalties up to One Thousand (\$1,000) dollars per day may be imposed by the County Engineer, if the grantee delays relocation of facilities beyond the time limits prescribed by the County Engineer. The County Engineer reserves the right to order its own agents or representatives to accomplish the desired change, and all costs of relocation or removal shall be borne by the grantee.
- 8. All such changes, reconstruction or relocation by the grantee shall be done in such manner as will cause the least interference with any of the County's work. The grantee shall have seventy-two (72) hours written notice by the County Engineer or the Engineer's representatives of any blasting contiguous to the grantee's permit rights in order that it may protect its interests.
- 9. This grant or privilege shall not be deemed or construed to be an exclusive franchise. It does not prohibit the County from granting other permits or franchise rights of like nature to other public or private utilities, nor shall it prevent the County from using any of its roads, streets, public places for any and all public use, or affect its jurisdiction over all or any part of them.
- 10. All the provisions, conditions, requirements and regulations herein contained shall be binding upon the successors and assigns of the grantee and all privileges of the grantee shall be given to such successors and assigns as if they were specifically mentioned.
- 11. The County Road Engineer or Real Estate Services, Section Manager may unilaterally revoke, annul, or terminate, revise or amend this permit without cause and for any reason including, but not limited to:
 - (a) Grantee's failure to comply with any provision, requirement, or regulation herein set forth;
 - (b) Grantee's willful neglect of, or failure to heed or comply with, notices given it;
 - (c) Grantee's facilities are not installed, operated, or maintained in conformity with conditions herein set forth;
 - (d) Grantee's failure to conform to any applicable law or regulation as currently exists or may hereafter be enacted, adopted or amended.
- 12. Grantee by accepting this permit agrees to obtain information from all utility departments regarding location and current status of their installations before starting work. Private property owners adjoining, or in proximity to the right of way shall be notified when such property is exposed to the possibility of injury or damage through performance of this project. The grantee shall make all advance arrangements necessary to protect such property and/or utility from injury or damage
- 13. The issuance of this permit to the grantee does not in any way relieve the grantee of any other applicable law in performing the work subject to this permit.
- 14. In all hiring or employment made possible resulting from the granting of this permit, there shall be no discrimination against any employee or applicant for employment because of sex, sexual orientation, age, race, color, ancestry, religion, national origin, marital status or the presence of any sensory, mental or physical handicap, unless based upon a bona fide occupational qualification, and this requirement shall apply to but not to be limited to the following: employment, advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship.

No person shall be denied or subjected to discrimination in receipt of the benefit of any services or activities made possible by or resulting from the granting of this permit on the ground of sex, sexual orientation, race, color, ancestry, religion, national origin, age (except minimum age and retirement provisions), marital status, parental status, or the presence of any sensory, mental or physical handicap.

Any violation of this-provision shall be considered a violation-of this permit and shall be grounds for cancellation, termination or suspension in whole or in part of the permit by the County and may result in ineligibility for further County permits.

The permittee shall make the best efforts to make opportunities for employment and/or contracting services available to women and minority persons. The permittee recognizes that the County has a policy of promoting affirmative action, equal opportunity and has resources available to assist permittees in these efforts

- 15. This permit and any underlying franchise does not authorize the cutting of trees with a trunk diameter greater than four (4) inches unless such authorization is specifically granted in writing by King County.
- 16. If the permittee fails to perform its obligations herein, vacate the premises, remove its facilities, restore the property as required, or comply with any condition or applicable regulation or law, the County shall have, at their option, the right to pursue any remedy or remedies available at law or equity including, but not limited to, the right to proceed under the provisions of Title 59 of the Revised Code of Washington.





u) 2	2 2018.	All work done in accordance with the City of Seath cations in effect on the date shown above, and su		SCALE: H. V.	INSPECTORS'S BOOK	
OVEMENT	PERMITTING	DESIGN REVIEW	REVISED AS-BUILT	WORK ORDER NO. PERMIT NO.	APPROVED	
8	20.1.8	CHECKED.	RECEIVED		SPU NO.	SOUTH
RAINAGE		DRAWN	PLAN REVIEW SEC. MGR	of	Transportation	
enter and the second second	20	DESIGNEDWNT 05/02/18 . CHECKED LMT 05/02/18 .	REVIEWED: 10/26/18 PLAN REVIEW ANALYST	Seatt	tle Department	I NPI
ENGINEE		NAME OR INITIALS AND DATE	INITIALS AND DATE	City of Sea		
						PROJECT NAME:







					PROJECT NAME:
	NAME OR INITIALS AND DATE DESIGNED	INITIALS AND DATE REVIEWED: 10/25/18	City of Seat		
20 DRAINAGE		PLAN REVIEW ANALYST		le Department Transportation	NPI
10-18 20.18	CHECKED.	RECEIVED	WORK ORDER NO.	SPU NO.	SOUTH
ROVEMENT PERMITTING	DESIGN REVIEW	REVISED AS-BUILT	PERMIT NO.	APPROVED	
11/2/ 201.8.	All work done in accordance with the City of Seat cations in effect on the date shown above, and su		SCALE: H. V.	INSPECTORS'S BOOK	

SURVEY CONTROL: (SEE SURVEY SHEET 5 FOR PLS SURVEY CONTROL INFORMATION -COPIED HERE FOR REFERENCE)

HORIZONTAL: THE OVERALL HORIZONTAL DATUM FOR THIS PROJECT IS NAD 83/2011, WASHINGTON COORDINATE SYSTEM, NORTH ZONE, BASED ON GPS MEASUREMENTS USING THE WASHINGTON STATE REFERENCE NETWORK.

OWNER: KING COUNTY ID: N/A DESCRIPTION: CONCRETE MONUMENT WITH PIN, 1.3 BELOW GRADE IN CASE LOCATION: INTERSECTION OF SOUTH ROSE STREET AND 12TH AVENUE SOUTH NORTHING: 196499.39 EASTING: 1273763.52

OWNER: KING COUNTY ID: N/A DESCRIPTION: 2" BRASS CAP, 0.8' BELOW GRADE IN CASE LOCATION: INTERSECTION OF DALLAS AVENUE SOUTH AND 12TH AVENUE SOUTH NORTHING: 196212.51 EASTING: 1273754.87

VERTICAL: NAVD88 VERTICAL CONTROL FOR THIS SITE IS CITY OF SEATTLE MON NO. SNV-5287-BRASS CAP AT NW CORNER OF 14TH AVENUE SOUTH AND S. CLOVERDALE STREET--ELEVATION 19.563' NAVD88 SITE BENCHMARK IS TOP OF MONUMENT IN CASE AT INTERSECTION OF 12TH AVENUE SO. AND DALLAS AVENUE SO.--ELEVATION 15.49' NAVD88

VERTICAL DATUM NAVD 88









REV	IEWED BY	SPU/WATER.
**************		***********
	REVIEWE	BY SPU/DR
*		= 10-18
APPROVED	BY SDOT	STREET IMPRO
		ST

Utility Right of Way Construction Permit - Sewer



Facilities Management Division **Real Estate Services Section** King County Administration Building King County 500 Fourth Avenue Room 830 Seattle, WA 98104

Job S	Starts/0	Close-out	s 206-296-8122, FAX 206 KCUIU@Kingcounty.go				Permits 206-477-9350 RES.PERMIT), FAX 206-296-0196 FS@Kingcounty.gov
Perm	it No.	ROWA	18-1664		Job No.	383173	Environmental Required	Assessment Date Received: 12/04/2018
Franc	hise N	Io		Kro	oll Page No./The	mas Guide 78/625	X Not Require	
Date	12/04	/2018	Section	TWP.	Rar	ige		eplacement ategorically Exempt
Appli	icant	SEATTI	LE PUBLIC UTILITIES, S	TEVE RESNI	CK		Phone No.	(206)386-1800
Addr	ess	700 5TH	I AVE FLOOR 27, SEATT	TLE WA 98104			Bond Amount	
Field	Conta	ct Name					Phone No.	
1205 Requ appro	S ORF esting oximate	ely 560LF	· · · · · · · · · · · · · · · · · · ·				n. Total length of sewer e	xtension is
THIS GIVE ALL V ALL U ALL V	PERMI DISTAN VATER JNDERO VORK 1	T IS FOR H NCE BY ST MAIN EX GROUND I TO BE DO	CONSISTENT CONTINUES SING COUNTY RIGHT OF WA TREET OR ROAD WITH AN O TENSIONS MUST HAVE APP UTILITY LINES MUST HAVE NE SUBJECT TO THE APPRO PERFORMED IN CONFORM	ON, FROM AND T ROVAL FROM T A MINIMUM 36 WAL OF THE KI	HE FIRE MARSH ' COVER, NG COUNTY ROA	AL. AD ENGINEER.		
	-		es to comply with provision d Administration Board.	ns, conditions a	nd requirements	contained in the "Standar	rds of Good Practice for	County Road Departments"
diligen	ice and	speed wi	-	s, interests and	convenience of th	e public. If at the end of	6 months after issuance of	agrees to prosecute with all permit the grantee shall not sion.
recom	mendati	ions hereir	0,0	ply to any utilit	y franchise grant	· • •	• · · ·	quirements, regulations and s issued. It will respect and
under officia proper obligat Permit defens Permit necess recove	law. A ls and rty dan tions un ttee, the e to th ttee's in ary for grable f	Accordingly employees nage whic nder this e concurre he County mmunity the Coun from the	r, the Permittee agrees for from and against liability h is caused by, arises out permit shall include: (a) In nt negligence of both parties at the Permittee's own ex under the industrial insuran nty to incur attorney's fees,	itself, its success for all claims, of, or is inci- ndemnification for s, or the neglige spense; (c) Inder the provisions of legal expenses, is determined	ors, and assigns, demands, suits, a dental to Permit or such claims w nce of one or m nnification of cla f Title 51 RCW, or other costs to	to defend, indemnify, and nd judgments, including co tee's exercise of rights an hether or not they arise ore third parties; (b) The ims made by the Permitto which waiver has been m enforce the provisions of	hold harmless King Count out of defense thereof, for and privileges granted by the from the sole negligence of duty to promptly accept the ee's own employees or age nutually negotiated by the this section, all such fees,	he maximum extent possible y, its appointed and elected injury to persons, death, or his permit. The Permittee's f either the County or the nder of defense and provide nts; and (d) Waiver of the parties. In the event it is expenses, and costs shall be defend, hold harmless, and
				Signatur	e of Applicant		Signature On File	
Appli	ication	Received	l 12/04/2	2018	Entered	12/04/2018	Permit Fee \$	200.00
Perm	it Issue	ed	12/05/2018	Ву		Ν	Maihoa Pham	
1. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	A King the Cou starting any othe All har Transpo One-way Asphalt crushed	g County in unty mont work. Fa er remedy a ord surfaced ortation. y traffic at a to be nea surfacing r	hly by applicant. Permittee i ilure to give notice will resu vailable under law or equity wh I roads to be jacked or be all times. Signs and traffic contro- at-line cut by either saw cut naterial and HMA the same thic	the project for is required to m alt in the assess ich the County ma ored. Exceptions ol will be in accord ting or jackham kness as the existi	inspection of ro- totify King Count ment of a one h my wish to pursue ar will be on a ca lance with the man mering a continu- ng asphalt pavemer	ad restoration. Cost of ins y Department of Transport our inspection time charge ad shall not be construed as an ase-by-case basis with the ual on uniform traffic control of bus line 1 foot back from at or a minimum of 2 inches, w	ation at <u>206-477-2611 betw</u> , againt the permittee. This election of remedies by the Co express permission of the devices for streets and highway trench. Restoration as a m hichever is greater.	King County Department of
	•		he above work. Call 1-800-4 n of County inspectors as specifi			r unuerground utility locat	ion. 1 nis instruction does i	not relieve the grantee from

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Permit - Terms and Conditions

a.

d.

3.

- 1. The grantee, its successors and assigns, is given and granted the right and authority to enter upon the right of way or public place for the purpose of performing the work described in this permit and approved by the County Engineer or the Engineer's agent.
- Before any work commences the site must be inspected by a County Representative and approved by the County Engineer with respect to: 2 location
 - Mode of operation of the installed facility e. f. Manner of maintenance of installed facility
 - type of construction b. materials and equipment to be installed c.
- Method of safeguarding public traffic both during working hours and during non-working hours while the g. project is under construction.
- manner of erection or construction
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- The County Road Engineer or Real Estate Services, Section Manager may unilaterally revoke, annul, or terminate, revise or amend this permit without cause and for any 11. reason including, but not limited to: (a) Grantee's failure to comply with any provision, requirement, or regulation herein set forth; (b) Grantee's willful neglect of, or failure to heed or comply with, notices given it; (c) Grantee's facilities are not installed, operated, or maintained in conformity with conditions herein set forth; (d) Grantee's failure to conform to any applicable law or regulation as currently exists or may hereafter be enacted, adopted or amended.
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- 13. The issuance of this permit to the grantee does not in any way relieve the grantee of any other applicable law in performing the work subject to this permit
- In all hiring or employment made possible resulting from the granting of this permit, there shall be no discrimination against any employee or applicant for employment 14. because of sex, sexual orientation, age, race, color, ancestry, religion, national origin, marital status or the presence of any sensory, mental or physical handicap, unless based upon a bona fide occupational qualification, and this requirement shall apply to but not to be limited to the following: employment, advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship,

No person shall be denied or subjected to discrimination in receipt of the benefit of any services or activities made possible by or resulting from the granting of this permit on the ground of sex, sexual orientation, race, color, ancestry, religion, national origin, age (except minimum age and retirement provisions), marital status, parental status, or the presence of any sensory, mental or physical handicap.

Any violation of this provision shall be considered a violation of this permit and shall be grounds for cancellation, termination or suspension in whole or in part of the permit by the County and may result in ineligibility for further County permits.

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- If the permittee fails to perform its obligations herein, vacate the premises, remove its facilities, restore the property as required, or comply with any condition or applicable regulation or law, the County shall have, at their option, the right to pursue any remedy or remedies available at law or equity including, but not limited to, the right to proceed under the provisions of Title 59 of the Revised Code of Washington.

Special Conditions:

Spectal Conditions:
 Pre-Construction Conference - A pre-construction conference shall be required. Contact KCDOT Utility Inspections, (206) 477-2611
 Traffic Control Plan - A traffic control plan shall be submitted & approved prior to the pre-construction conference.
 Erosion-Sedimentation Plan - An erosion/sedimentation plan shall be submitted & approved prior to the pre-construction conference.
 Open Cut is Acceptable - Open cut is acceptable in accordance with K.C. Road Standards, Section 8.03B(3) on
 Overlay Utility - In accordance with K.C. Road Standards, section 8.03A(2)d, roads shown on plans shall be patched & overlaid full width with a minimum 2" compacted state spec. HMA.



Field Density of Soil / Aggregate by Nuclear Method

ASTM D 6938

Project Information

Client
Project NPI
Work Order No. 7/2/642-24
Technician Steve Hallee
Date 5/1/19
Weather Partly cloudy

Gauge Information

Make Troxler D Other (Specify)
Model 3430
Serial No. 3 7343
Density Standard Count
Moisture Standard Count
Use Density/Moisture Equations False
Mode D Backscatter Direct Transmission

Proctor Information

Sample ID	Visual C	Max Dry De	ensity, (lb/ft ³)	Optimum Mo	isture %		
	Native material - Brown/dark				108.0		
	gray sand	with small					
	aggrego	rte			1.1.1.1.1		
Compaction Require	ments (%):	Mc	bisture Re	quirements (+/- %)	and the second	-
General Location:	8" Sewer	pipeline .	backf	11-5	Rose 5	it, south	bound
States and States	lane, 0'-60	"South of	121	D AVE	5.	The second	

Test Results

Test No.	Sample ID	Time Sampled	Gauge Probe Depth (in)	Elevation of Test or Depth	Wet Density (lb/ft ³)	Moisture Content %	Dry Density (lb/ft ³)	Percent Compaction	Comments
1	1	1:20	10"	2'BFG	117,2	13,4	103.4	95.7	6. A
Locat	ion 45	15 0	of 121	AVE S	5,				
2	10	1:58	10	F.G.	116,4	10,5	105.3	97,5	6,A
Locat	ion 20'	's of	12步	AVE S.					
						a an			
Locat	ion	5-2252			A Partie	12.82.5.9			and the second
	5.3								
Locat	ion	i dentra							
Locat	ion								
Locat	ion			Carlos 2.					
Com	2	. Base . Subbase . Subgrade		B = Compac	ults comply wit ction percentag	e does not con		fications	

- C = Retest of previous test
- 4. Improved Subgrade
- D = Moisture in excess of specifications
- 5. Surface

E = Moisture below specifications

7. Backfill

6. Fill

Remarks

7. Duokini					
Material	placed in 2-3	lifts, c	ompacted	by means of a	
Komatsu	'PC 88 MR -	track hoe	with plate	e compactor,	



Field Density of Soil / Aggregate by Nuclear Method

ASTM D 6938

Project Information

Client
Project
Work Order No. 0712/66/2-25
Technician Chris FONTGINP
Date 5.2
Weather OUCH CG St

Gauge Information Make TTraylor C Other (Specify)

Model 3430
Serial No. 67441
Density Standard Count 7/15
Moisture Standard Count 790
Use Density/Moisture Equations False
Mode Backscatter Direct Transmission

Proctor Information

Sample ID	Visual Classification	Max Dry Density, (lb/ft ³)	Optimum Moisture %
07121642.	-23-51	10%.	10.
	Jark brown Sand with	A LAND RANKING ST	
	Q 9 9		State of the state
Compaction Require	ments (%): Moisture	Requirements (+/- %)	

General Location:

Man		101	1	1+	2
11011	1	01	C	1-1	1

Test	Results	1. 17 L	a server and	1. J. 1.					
Test No.	Sample ID	Time Sampled	Gauge Probe Depth (in)	Elevation of Test or Depth	Wet Density (lb/ft ³)	Moisture Content %	Dry Density (lb/ft ³)	Percent Compaction	Comments
1	(Card		12	-267	118.5.	4.7	105.2	97.4/	
Locat	ion		proved by						
			12	-144	115.4	9.2	105.7	97.8	t and
Locat	ion			Sec. Same					
							<u>Ś</u> .		
Locat	ion								
Locat	ion	-14 A 7 2	T LAND				Sec. 2		
								1999 - Ke	TE DE L
Locat	tion				できる				S. T.
Locat	ion	1.000	- Section			1		-	
Com	ments 1	Base		A = Test res	ults comply wit	th specification	S		

B = Compaction percentage does not comply with specifications

- C = Retest of previous test
- 4. Improved Subgrade
- 5. Surface

2. Subbase

3. Subgrade

6. Fill 7. Backfill

- D = Moisture in excess of specifications
- E = Moisture below specifications

Remarks



Field Density of Soil / Aggregate by Nuclear Method

ASTM D 6938

Project Information

北湖

Client
Project NPI
Work Order No. 712/642 - 26
Technician Steve Hollee
Date 5/3/19
Weather Partly cloudy

Gauge Information

10

Make Troxler D Other (Specify)
Model 3430
Serial No. 37343
Density Standard Count
Moisture Standard Count
Use Density/Moisture Equations False
Mode Backscatter Direct Transmission

Proctor Information

Sample ID	Visual Classification		Max Dry Density, (lb/ft ³)	Optimum Moisture %		
	Native material		108.0	10.0		
Compaction Require	ements (%): 95.0	Moisture Re	equirements (+/- %)	1		
General Location:	8" sewer pipeline	backt	Fill- 5 Rose	St. South bou		

SOUTH

Test Results

Test No.	Sample ID	Time Sampled	Gauge Probe Depth (in)	Elevation of Test or Depth	Wet Density (lb/ft ³)	Moisture Content %	Dry Density (lb/ft ³)	Percent Compaction	Comments
1		12:20	10"	2'BEG	112,6	9,1	103,2	95,6	6.A
Locat	ion 60	1 5	of 12#	AVE S.					
2		12:54	10	F.G.	119,9	13.6	105.6	97.8	6.A
Locat	ion 100	15 0	f 12站	AVE S.					
Locat	ion	1.00				a la sta		1. 2.1	Server and
5. J					1		5 20 53		
Locat	ion	States and the		1	Carlo - Carl				
									5.000
Locat	ion						1. 1. 1. 1.	1. A. 1.	
	Sa Sa Araki	a profile service							
Locat	ion			200 X 200		2014 - N. 14	e. 20. 19		N. A.S.
Com	2	. Base . Subbase . Subgrade		B = Compac	ults comply wit ction percentag	e does not con		fications	

4. Improved Subgrade

D = Moisture in excess of specifications

5. Surface

6. Fill

E = Moisture below specifications

7. Backfill Remarks



Field Density of Soil / Aggregate by Nuclear Method

ASTM D 6938

Project Information

Client
Project NPT
Work Order No. 7/2/642-27
Technician, Steve Hallee
Date 5/6/19
Weather Partly cloudy

Gauge Information
Make Troxler Other (Specify)
Model 3430
Serial No. 65366
Density Standard Count
Moisture Standard Count
Use Density/Moisture Equations False
Mode Dackscatter Direct Transmission

Proctor Information

Sample ID	Visual Classification	Max Dry Density, (lb/ft ³)	Optimum Moisture %	
	Native material-Gra	108,0	10.0	
	brown sandy with s	mall		
	aggregate			
Compaction Requirer	nents (%): 95,0	Moisture Re	equirements (+/- %)	
General Location:	8" sewer pipeline	back	Fill- 5 Rose	e st, 110'-210
	South of 12B AVE	5. 504	Ith bound lar	ne í

Test Results

Test No.	Sample ID	Time Sampled	Gauge Probe Depth (in)	Elevation of Test or Depth	Wet Density (lb/ft ³)	Moisture Content %	Dry Density (lb/ft ³)	Percent Compaction	Comments
1		1:48	10"	2'BFG	116.9	13,4	103.1	95,5	6,A
Locat	ion 14	10' 5	of 12	BAVE.	5,				
2	205 19	1:53	10	2'BFG	110.0	7.1	102,7	95,1	6,A
Locat	ion 18.	5' 5	of 12	AVE	5,				
3		2:25	10	F,G,	115,4	11,5	103.5	95.9	6.A
Locat	ion 130	15	of 12	16 AVE :	5,				
4		2:30	10	F.G.	111.8	7,9	103,6	96.0	6,A
Locat	ion 190	1'5	of 12	AVE AVE	5,				
Locat	ion								
		×							
Locat	ion								1
Com	ments 1	Base		A = Test res	ults comply wit	h specification	S		

B = Compaction percentage does not comply with specifications

- C = Retest of previous test
- 4. Improved Subgrade

5. Surface

D = Moisture in excess of specifications

E = Moisture below specifications

6. Fill

2. Subbase

3. Subgrade

Remarks

7. Backfill



Field Density of Soil / Aggregate by Nuclear Method

ASTM D 6938

Project Information

Client
Project NPL
Work Order No. 712/642-28
Technician Steve Hallee
Date 5/7/19
Weather Clear

1

Gauge Information

Make 🕱 Troxler	□ Other (Specify)
Model 3430	
Serial No. 37343	
Density Standard Count	
Moisture Standard Coun	t
Use Density/Moisture Ec	uations E False
Mode D Backscatter	Direct Transmission

Proctor Information

Sample ID	Visual Classification	Max Dry Density, (lb/ft ³)	Optimum Moisture %
	Native material - Brown, arau	108.0	10.0
	sand with small gagregate.		
Compaction Require	ements (%): 95.0 Moisture Re	equirements (+/- %)	a floor the second
General Location	8" sewer pipeline hackfill.	- 5 Rose St.	south bound la
	210'-300' south of 12th AVI	55.	

Test Results

Test No.	Sample ID	Time Sampled	Gauge Probe Depth (in)	Elevation of Test or Depth	Wet Density (lb/ft ³)	Moisture Content %	Dry Density (lb/ft ³)	Percent Compaction	Comments
1		12:12	10"	2'B.F.G.	111,9	6,8	104.8	97.1	6, A
Locat	ion 24	0'5	of 12	15 AVE S					
2		12:42	10"	F.G.	108.0	5.1	102,8	95,2	6.A
Locat	tion 25	0'5	of 12	th AVE	5.				
Locat	tion								
4							10		
Locat	tion								- Alter
							1.		
Locat	tion						1.1.25		
	85.97								
Locat	tion	den S							1.3418
Com	2 3 4 5 6	. Base . Subbase . Subgrade . Improved Su . Surface . Fill . Backfill	ubgrade	B = Compac C = Retest c D = Moisture	ults comply wit ction percentag of previous test e in excess of s e below specific	e does not con specifications		fications	

Remarks

arks	Material	placed i	n 2'-3	' lifts a	ompacted by	u means of
	a Komatsy	' PC 881	MR trac	the with	h plate com	bactor,



Field Density of Soil / Aggregate by Nuclear Method

ASTM D 6938

Project Information

Client
Project
Work Order No. 07/2/66/2-26
Technician
Date 5.8
Weather

Gauge Information

•			
Make	Troxler	□ Other (Specify)	Sec.
Model	3430		
Serial N	NO. 67641		
Density	y Standard Count	t2104	
Moistur	re Standard Cour	nt- Q.L	
Use De	ensity/Moisture E	quations E False	5
Mode	Backscatter	Direct Transmission	1.4.5

Proctor Information

Sample ID	Visual Classification	Max Dry Density, (lb/ft ³)	Optimum Moisture %				
			108				
			A BAR AT A SALE OF	<u> 19 19 19 19 19 19 19 19 19 19 19 19 19 </u>			
Compaction Requirements	s (%): G 5	Moisture Requirements (+/- %)					

General Location:

1	U	G	11	7	5		A	1	l	1	v	-	F	-	1	M	9	2	Ho	21	e	F	t	3	
					*	_				 	_											5 1		1	

Test Results

Test No.	Sample ID	Time Sampled	Gauge Probe Depth (in)	Elevation of Test or Depth	Wet Density (lb/ft ³)	Moisture Content %	Dry Density (lb/ft ³)	Percent Compaction	Comments
1-			12	-2	110.7	10.7	107.2	99.3	
Locat	ion	1		States &			3313		
2	- Al		12	-2	110.	14-7	102.0	95.2	1943 B. B. B.
Locat	ion						102.4		
3	1 - E-3		14	12	00000	12.2	102.9	95.2	
Locat	ion		133 B		115.5				
H			12	• 0	111.4	7.5	103.6	95.6	
Locat	ion	Divert.			1913.22				
5			12	0	1/1 401	7.2	103.6	95.9	
Locat	tion			a series of					
1							3.355		
Locat	tion								

Comments 1. Base

A = Test results comply with specifications

2. Subbase

- 3. Subgrade
- 4. Improved Subgrade
- 5. Surface
- 6. Fill

- 7. Backfill

- B = Compaction percentage does not comply with specifications
- C = Retest of previous test
- D = Moisture in excess of specifications
- E = Moisture below specifications

Remarks



ASTM D 6938

Field Density of Soil / Aggregate by Nuclear Method

Project Information

Client
Project NPI
Work Order No. 07121642-30
Technician Amani-E. Kimambo BSC
Date 05/09/2019.
Weather Partly Cloudy 75°F.

Gauge Information									
Make D Troxler D Other (Specify)									
Model 3430									
Serial No. 65366									
Density Standard Count 2628									
Moisture Standard Count 638									
Use Density/Moisture Equations False									
Mode Backscatter Direct Transmission									

Proctor Information

Sample ID	Visual Classification		Max Dry Density, (lb/ft ³)	Optimum Moisture %			
	Native Material		108	10%			
Compaction Require	ments (%): 95%	Moisture Requirements (+/- %)					

General Location:

5 Kose St, Sewer Pipeline.

Test Results

4

Test No.	Sample ID	Time Sampled	Test Depth (in)	Elevation of Test	Wet Density (lb/ft ³)	Moisture Content %	Dry Density (lb/ft ³)	Percent Compaction	Comments		
1.		Ipm	8"	2 Ft	121.8	8.3%	112.5	104.2%	PASS		
Locat	Location 152 Ft Arom Main Hole Free. M-9.2.										
2.		1.57pr	n 811	SInch	117.1	8.1%	108.3	100.3%	PASS		
Location 146Ft from Main Hole Free. M-8.8											
The second											
Location											
		1.1.2.1.1.				and a state of the second					
Location											
		14200									
Location											
Location											
Comments 1. Base A = Test results comply with specifications											
		2. Subbase			B = Compaction percentage does not comply with specifications						
3. Subgrade				of previous test			M- 8.8				
4. Improved Subgrade				e in excess of s			28.3 JOD: 3% PASS M- 8.8				
Remarks <u>6. Fill</u> (Back Fill.											
Nature Material -7 108 (a) 10.00											

The information presented in this report is preliminary in nature and presented for informational purposes only. The final report shall be conclusive as to Intertek-PSI's findings. The information included herein is not to be used for acceptance, compliance, or contractual purposes. This information is subject to review and change. These test results apply only to the specific locations noted and may not represent any other locations or elevations. Reports may not be reproduced, except in full, without written permission by Intertek-PSI.

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ASTM D 6938

Field Density of Soil / Aggregate by Nuclear Method

Project Information

Client
Project NPI
Work Order No. 07121642-31
Technician Amani E.
Date 05/13/2019
Weather Cloudy 57°F

Gauge Information						
Make Troxler Dother (Specify)						
Model 3430						
Serial No. 65366						
Density Standard Count 2605						
Moisture Standard Count 638						
Use Density/Moisture Equations False						
Mode Backscatter Direct Transmission						

Proctor Information

Sample ID	Visual Classification		Max Dry Density, (lb/ft ³)	Optimum Moisture %	
	Native Material		108.0	J0.0L	
Compaction Require	ments (%): 95%	Moisture Requirements (+/- %)			

General Location:

S Rose St, Sewer Utility,

Test Results

Test No.	Sample ID	Time Sampled	Test Depth (in)	Elevation of Test	Wet Density (lb/ft ³)	Moisture Content %	Dry Density (lb/ft ³)	Percent Compaction	Comments
T		1 bm	8"	21	112.8	8.2	108.8	96.5	PASS
Location JO Ft From Trench 159 Ft From Main Hole M-9.0.									
2		1:220m	8"	0"	107.7	8.9	103.3	96.0	PASC
Location JOFt From Trench 165Ft From Main Hole M-7.2.									
				1. 1. 1. 1. 1. 1.					
Location									
1996									
Locat	ion								
							449		
Location									
XZ			ale an le c		1816 in 18				
Location									
Comments 1. Base A = Test results comply with specifications 2. Subbase B = Compaction percentage does not comply with specifications 3. Subgrade C = Retest of previous test									

- 4. Improved Subgrade
- 5. Surface

6. Fill

D = Moisture in excess of specifications E = Moisture below specifications

Remarks