# FINAL CONSTRUCTION PLANS EAGLES LANDING PARKING LOT ADDITION 2625 N. HURRICANE ROAD FRANKLIN, INDIANA



VICINITY MAP

### **OWNER/DEVELOPER**

ESTATES AT FRANKLIN, LLC 176 W. JEFFERSON STREET FRANKLIN, IN 46131 PHONE: (317) 442-0142 CONTACT: FRED PARIS EMAIL: fredparis@fredparis.com

## ENGINEER

CROSSROAD ENGINEERS, PC 115 N. 17TH AVENUE BEECH GROVE, IN 46107 PHONE: (317) 780-1555 CONTACT: GREGORY J. ILKO EMAIL: gilko@crossroadengineers.com

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LOCATION MAP

	PLAN INDEX
SHEET #	SUBJECT
100	TITLE SHEET
200	TOPOGRAPHICAL SURVEY
300	SITE DIMENSION, GRADING AND EROSION CONTROL PLAN
301	STORMWATER POLLUTION PREVENTION PLAN
400	SPECIFICATIONS

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No grade stabiliza LOCATION DIMENS	UN SIKUCIU tion structur SIONS. SPEC	res are req FICATIONS	uired for	this projec	t. Each Str	DRMWATER OUAU	ہ ۲۲	on the sit	te in such o winds, storm
MEASURE Each stormwater	quality mea	sure is sh	nown on t	he Erosion	Control F	Plan and association	ed	all wastes material is	and unusec required.
details/specificatio TEMPORARY SURFA	ns are show CE STABILIZ	n on the I ATION	Erosion Co	ontrol Deta	ils.	0	Ç	9. Additional	Erosion Cont
detailed on the Er	stabilizatio osion Contro CF STABILIZ	on method ol Details. ATION	us are sh	IOWN ON	ne Erosion.	control Plan d		DITIONAL I	MATERIA
Permanent surface detailed on the Er	e stabilizationsion Contro	on method Details.	ds are sh	nown on	the Erosior	Control Plan o	<sup>ıd</sup> A.		of this plan.
MATERIAL HANDLIN Spill prevention sł	G AND SPILL nall be acco	_ PREVENT	10N by utilizin	g spillgua	ds for equ	ipment fueling o	nd	1. To help p environmen	rotect the h nt.
servicing operation resistant petroleur	s. Spillguard n products	ts shall be (including	e 3'x3'x6" diesel fu	and shall el and oil	be constr ). On-site	ucted of a mate fuel storage tar	al ks	2. Preventing include gas	the contam soline, diesel
snall have emerge hazardous materic	ncy storage I spillage sl osed of in	e capacity hall be co	airectly b ollected ar	below the nd/or clea rederated	cank in ca ned immed ite and las	se or rupture. A liately by a trair al regulations	ıy əd	soil, solven wastes. This plan out	lines procedu
Indiana Depar	tment of Engrand	vironmenta onse (317)	wiui all f al Managen ) 2.3.3—774	eaerai, sta nent 15. Toll Fr	e (800) 2.	а теушицопs. 33-7745		storm water response proc	by onsite p edure should
Franklin Fire [ *Additional Mat	)epartment ( erial Handling	(888) 736- and Spill P	, 200-774 -3650 revention (+	this sheet)*	(000) 20		В.	PREVENTI	
MONITORING AND M Monitoring and Ma	1AINTENANCE sintenance G	E GUIDELINE Guidelines d	ES are locate	d in the	middle on	the Erosion Cont	-ol	1. The contro the site.	ictor or resp The contact
Details. EROSION & SEDIME	NT CONTROL	_ MEASURE	ES FOR INE	DIVIDUAL E	UILDING LO	rs		circumstan 2. The contro	ices require t actor/owner
Not applicable, as	this is to b		a as as c ITION '	parking l	ot expansio אופדסיי	n. CTION		pumpers of Absorbent	and other e materials ar
PROPOSED POLIUT	ANTS AND S		<u>- ION - F</u>	) WITH PP	DPOSED 1 AV	USF		address m the absorb	inor spills. A ent materials
Potential pollutant parking areas. fer	s include pe tilizers, pesi	ticides, an	roducts an Id herbicid	nd antifree les for la	ze from au wn mainten	tomobiles using t ance and sedime	ne nt	spills. A c the import	continuing ed ance to all e
from various source STORMWATER QUAI	es. ITY MEASUR	E IMPLEME	NTATION					4. All materia Indiana Dej	ils used in th partment of
Stormwater quality PROPOSED POST C	measures o ONSTRUCTIO	nre implem N STORMW	nented by ATER QUA	construction	on of the s URES sist of'	ite improvements	on	5. Using wate federal, or	er to flush sp local agency
within the tempor sediment through	ary dry dete sheet flow o	ention basi	in and exp	pansive ar	eas of gra	ss that will capti	re C.	SPILL RE	SPONSE
LOCATION, DIMENS MEASURE	IONS, SPEC	FICATIONS	AND DE	TAILS OF	EACH ST	ORMWATER QUAL	Υ	can be contro • Contain sp	olled by the f ill to prevent
The location of th MAINTENANCE GUID	e water qual ELINES OF F	lity measur POST_CONS	res can be STRUCTION	e found or STORMWA	Sheet 300	). Y MEASURES		water or b • Use absor	ury. bent materia
All landscape are re-planting any	as shall be vegetated a	e maintain ireas as i	ed by mo necessary.	owing, rer The pro	noving tras posed outl	n and debris, c et pipe within t	าd าe	soil and di properly	spose of /.
storm event. All o	COLLING DASI	n shall he	debris sh	all be rem	oved upon	ing type atter ea	211	Semi—significa contamination	nt Spills - of ground o

#### ID MAINTENANCE GUIDELINES

#### TION DRIVE AND PARKING AREA: d after each storm event and log condition per IDEM.

til vegetation is established and log condition per IDEM.

- PERMANENT SEEDING:
- ally, especially after storm events, until the stand is successfully
- fertilizer the following growing season according to soil test
- bare, or sparse areas by filling any gullies, re-fertilizing, over- or sparse or patchy, review the plant materials chosen, soil fertility,
- n, and mulching; repair the affected area either by over-seeding or by nulching after re-preparing the seed bed.
- ils to grow, consider soil testing to determine acidity or nutrient lization is needed to get a satisfactory stand, do so according to soil
- est INDOT Specification.
- orm events to check for movement of mulch or for erosion. age, or erosion is present, repair the surface, then re-seed, re-mulch, e, install new netting. ons until vegetation is firmly established.
- est INDOT Specification.

#### BLANKET: establishment, inspect after storm events for any erosion below the

- vs erosion, pull back that portion of the blanket covering it, add soil, , and re—lay and staple the blanket.
- establishment, check the treated area periodically.
- ence periodically and after each storm event. ears, starts to decompose, or in any way becomes ineffective, replace ion immediately.
- sediment when it reaches half the height of the fence at its lowest ng the fabric to bulge. id undermining the fence during clean out.
- Iting drainage area has been stabilized, remove the fence and sediment ne disturbed area to grade and stabilize.

Ily for displaced rock material, slumping, and erosion at edges,

#### EQUENCE & SCHEDULE OF EROSION IENTATION

- placed as shown in these plans before any land disturbing activities
- nstruction meeting with the City of Franklin 48 hours prior to start
- gravel entrance in accordance with the "INDIANA STORM WATER All other erosion control measures shall be installed and constructed
- ginning of the project. ockpile, as necessary, in approved location. visturbed areas should be seeded immediately following rough grading.
- be disturbed again should be permanently seeded. No unvegetated oosed for more than seven days. All erosion control blankets shall be installed per manufacturers s soon as final grading is complete.
- ons. Temporary erosion control measures shall remain in place until

#### N CONTROL REQUIREMENTS FOR HIDEM GENERAL PERMIT RULES FOR INOFF FROM CONSTRUCTION SITES

- practices shall be in accordance with the latest edition of the ER QUALITY MANUAL.
- measures included in this plan shall be installed prior to initial land es or as soon as practical. Sediment shall be prevented from e project site by installing and maintaining silt fence, straw bales, . As shown on this plan. If shown on this plan, energy—dissipation Control at the outfall of the storm sewer system shall be installed at struction of the outfall.
- drain inlets shall be protected against sedimentation with silt sack bric, or equivalent barriers as shown on this plan.
- by inclement weather conditions or other circumstances beyond the ractor/developer appropriate Erosion Control practices will be initiated ys of the last land disturbing activity at the site. The site shall be g, sodding, mulching, covering, or by other equivalent Erosion Control
- rol plan shall be implemented on all disturbed areas within the All measures involving Erosion Control practices shall be installed of a qualified person experienced in Erosion Control and following fications included herein.
- construction activity, all sediment basins and other Erosion Control naintained by the contractor. At the completion of construction, the ordinate the transfer of required maintenance responsibilities with the
- adways shall be kept cleared of accumulated sediment. Bulk clearing diment shall not include flushing the area with water. Cleared: eturned to the point of likely origin or other suitable location.
- control wastes, garbage, debris, wastewater, and other substances h a way that they shall not be transported from the site by the orm water runoff, or other forces. Proper disposal or management of ised building materials appropriate to the nature of the waste or

#### ontrol measures may be required by state or county agencies.

RIAL HANDLING AND SPILL PREVENTION PLAN

health and safety of those working on the site as well as the tamination of storm water runoff. Pollutants generated onsite may esel fuel, oils, grease, paints, pesticides, nutrients, concrete washout, plastic, Styrofoam, metals, glass and other forms of liquid or solid

cedures to help prevent health and safety issues, contamination of pollutants, help prevent fuel and chemical spills and provide a ould a spill occur.

#### D READINESS

- esponsible party will prepare a contact list in the event of a spill on act list will have names and contact numbers. The contact list will nders and a chain of command. Include information on what re the initiation of the contact list and chain of command.
- er shall maintain a list of qualified contractors, Vac—trucks, tank equipment or businesses gualified to do clean-up operations. and supplies need to be available onsite in sufficient auantities to . All employees need to be educated on the proper application of equipment operators must be aware and trained for prevention of
- education program is required for new employees and emphasizing ll employee the course of a cleanup will be disposed in a manor approved by
- of Environmental Management. spilled material will not be permitted unless authorized by a state, ency. Tarps can be used to cover spilled material during rain events.

at typically involve oil gasoline, paint, hydraulic fluid etc. Minor spills ne first responder at the discovery of the spill. vent material from entering storm or ground water. Do not flush with

erial to clean—up spill material and any subsequently contaminated

Approximately ten gallons or less of pollutant with no d or surface waters. Minor spills can be generally controlled by the elp from other site personnel. This response may require other make sure the spill is quickly and safely addressed. At the discovery of the spill:

- Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury. • Use absorbent material to clean-up spills and dispose of properly. Spills on impervious surfaces should be contained with a dry absorbent. Spills on clayey soils should be contained by constructing an earthen dike and should be disposed of as soon as possible to prevent migration deeper into the soil and groundwater. Dispose of contaminated soils or absorbents properly.
- Contact 911 if this spill could be a safety issue. Contact supervisors and designated inspectors immediately
- · Contaminated solids to be removed to an approved landfill
- Major or Hazardous Spills More than ten gallons, there is the potential for death, injury or illness to humans or animals or has the potential for surface or groundwater pollution.
- Control or contain the spill without risking bodily harm. Temporarily plug storm drains if possible to prevent migration of the spill into the stormwater system. • Immediately contact the local Fire Department at 911 to report any hazard material
- Contact supervisors and designated inspectors immediately. Other county or municipal officials (list as needed) responsible for storm water facilities should be contacted as well. The contractor is responsible for having these contact numbers available at the job
- site. A written report should be submitted to the owner as soon as possible. • As soon as possible but within 2 hours of discovery, contact the Department of Environmental Management, Office of Emergency Response 1-888-233-7745. The following information
- should be noted for future reports to IDEM or the National Response Center.
  - o Name, address and phone number of person making the spill report o The location of the spill
  - o The time of the spill
  - o Identification of the spilled substance o Approximate quantity of the substance that has been spilled or may be
  - further spilled o The duration and source of the spill
  - o Name and location of the damaged waters
  - o Name of spill response organization o What measures were taken in the spill response
- o Other information that may be significant Additional regulation or requirements may be present. A spill response professional should

be consulted to make sure all appropriate and required steps have been taken. Contaminated solids should only be removed from the site after approval is given by Emergency Response.

#### D. THE FOLLOWING PROCEDURES AND PRACTICES WILL HELP PREVENT UNNECESSARY SPILLS

I. Vehicle and Equipment Fueling Description and Purpose:

- Vehicle equipment fueling procedures and practices are designed to prevent fuel spills and leaks, and reduce or eliminate contamination of stormwater. This can be accomplished by using offsite facilities, fueling in designated areas only, enclosing or covering stored fuel, implementing spill controls, and training employees and subcontractors in proper fueling procedures.
- Onsite vehicle and equipment fueling should only be used where it is impractical to send vehicles and equipment offsite for fueling. Implementation
- Use offsite fueling stations as much as possible. These businesses are better equipped to handle fuel and spills properly. Performing this work offsite can also be economical by eliminating the need for a separate fueling area at a site. • Discourage "topping-off" of fuel tanks.
- Absorbent spill cleanup materials and spill kits should be available in fueling areas and
- on fueling trucks, and should be disposed of properly after use. • Drip pans or absorbent pads should be used during vehicle and equipment fueling,
- unless the fueling is performed over an impermeable surface in a dedicated fueling area. • Use absorbent materials on small spills. Do not hose down or bury the spill. Remove the absorbent materials promptly and dispose of properly.
- Avoid mobile fueling of mobile construction equipment around the site; rather, transport the equipment to designated fueling areas.
- Train employees and subcontractors in proper fueling and cleanup procedures. • Dedicated fueling areas should be protected from stormwater run-on and runoff, and
- should be located at least 50 feet away from the downstream drainage facilities and watercourses. Fueling must be performed on level-grade areas. • Protect fueling areas with berms and dikes to prevent run-on, runoff, and to contain
- Nozzles used in vehicle and equipment fueling should be equipped with an automatic shutoff to control drips. Fueling operations should not be left unattended. • Federal, state, and local requirements should be observed for any stationary above
- ground storage tanks.
- Inspection and Maintenance • Vehicles and eauipment should be inspected each day of use for leaks. Leaks should be repaired immediately or problem vehicles or equipment should be removed from the project site.
- Keep ample supplies of spill cleanup materials onsite. • Immediately clean up spills and properly dispose of contaminated soils.
- <u>II. Solid Waste Management</u>
- Description of Purpose: Solid waste management procedures and practices are designed to prevent or reduce the discharge of pollutants to stormwater from solid or construction waste by providing designated waste collection areas and containers, arranging for regular disposal, and training employees and subcontractors.
- Suitable Applications: This BMP is suitable for construction sites where the following wastes are generated or stored:
- Solid waste generated from trees and shrubs removed during land clearing, demolition of existing structures (rubble), and building construction.
- Packaging materials including wood, paper, and plastic.
- Scrap or surplus building materials including scrap metals, rubber, plastic, glass pieces, and masonry products. • Domestic wastes including food containers such as beverage cans, coffee cups, paper bags, plastic wrappers, and cigarettes.
- Construction waste including brick, mortar, timber, steel and metal scraps, pipe and electrical cuttings, non-hazardous equipment parts. Styrofoam and other materials send transport and package construction materials. Implementation:
- The following steps will help keep a clean site and reduce stormwater pollution:
- Select designated waste collection greas onsite. • Inform trash-hauling contractors that you will accept only watertight dumpsters for onsite use.
- Inspect dumpsters for leaks and repair any dumpster that is not watertight. • Provide an adequate number of containers with lids or covers that can be placed over the container to keep rain out or to prevent loss of wastes when it is windy.
- Plan for additional containers and more frequent pickup during the demolition phase of construction.
- Collect site trash daily, especially during rainy and windy conditions. • Remove this solid waste promptly since erosion and sediment control devices tend to collect litter.
- Make sure that toxic liquid wastes (used oils, solvents, and paints) and chemicals (acid, pesticides, additives, curing compounds) are not disposed of in dumpsters designed for
- construction debris. • Do not hose out dumpsters on the construction site. Leave dumpster cleaning to the trash haulina contractor.
- Arrange for regular waste collection before containers overflow.
- Clean up immediately if a container does spill. • Make sure that construction waste is collected, removed, and disposed of only at authorized disposal areas. Solid waste storage areas should be located in areas prone to flooding or ponding.
- Locate solid waste dumpster a minimum of 50' away from storm water inlets or other drainaae facilities. • Locate dumpster on stone or earth to minimize the potential for spills or leaks to drain
- immediately into a drainage facility. Inspection and Maintenance:
- Inspect and verify that activity-based BMPs are in place prior to the commencement of associated activities. While activities associated with the BMP are under way, inspect weekly to verify continued BMP implementation
- Inspect BMPs subject to non-stormwater discharge daily while non-stormwater discharges occur. Inspect construction waste are regularly.
- Arrange for regular waste collection.

#### <u>Concrete Washout</u>

- The following steps will help reduce stormwater pollution from concrete wastes: • Discuss the concrete management techniques described in the BMP (such as handling of
- concrete waste and washout) with the reddy-mix concrete supplier before any deliveries are made. • Incorporate requirements for concrete waste management into material supplier and subcontractors' agreements.
- Store dry and wet materials under cover, away from drainage areas.
- Avoid mixing excess amounts of fresh concrete. Perform washout of concrete trucks offsite or in designed greas only.
- Do not wash concrete trucks into storm drains open ditches, streets, or streams. • Do no allow excess concrete to be dumped onsite, except in designed areas.
- For onsite washout
- Locate washout areas at least 50 feet from storm drains, open ditches, or water • Do not allow runoff from this area by constructing a temporary pit or bermed area large enough for liquid and solid waste.
- Wash out wastes into the temporary pit where the concrete can set, be broken up, and then disposed properly • Avoid creating runoff by drinking water to a bermed or level area when washing
- concrete to remove fine particles and expose the aggregate. • Do not wash sweepings form exposed aggregate concrete into the street or storm drain. Collect and return sweepings to aggregate base stockpile or dispose in the trash.

<u>V. Vehicle Maintenance Areas</u> Purpose— To prevent spills during the normal maintenance of construction machinery. Implementation— Where and when feasible, maintenance shall be preformed offsite in

- covered facility with an impervious floor. • Use a dedicated site for machinery maintenance • Site the maintenance area at least 50 feet from storm water inlets or water bodies
- Maintain clean up materials close at hand. Utilize drip pans and absorbent pads to prevent oils from reaching the soil surface. • Inspect equipment daily for leaks or worn hoses. Repair or replace to prevent onsite
- Properly dispose of all fluids removed or spilled from machinery.
- V. Fluids, paints, solvents and other chemicals storage and use

Purpose- To prevent spills during the use and storage of the materials

- Implementation-• Store materials in there original containers
- Maintain safety data sheets on all products
- Store materials in a weather proof/vandal resistant locker or building • Keep materials away from flammable sources
- Provide and read instructions for the proper use and storage of all materials • For bulk material stored onsite, provide diking or double containment in case of leaks or
- No washout of solvent from paint supplies should be done near or into a storm water inlet or other drainage facility. <u>VI. Disposal of sediment laden water</u>

Purpose- To prevent the purposeful discharge of sediment laden water into waters of the

- United States Implementation
- The sediment and any other pollutant from all pumping or dewatering operations that discharge into storm sewers, wetlands, drainage ways or water bodies must be removed from the water before it's discharged.
- A suitable practice is needed at the discharge to allow the suspended solids to be removed from the water column. Slow moving water and time are needed components for an effective practice. Mechanical filters and chemical flocculants can do an excellent iob of removing the fine materials.
- Sediment removal pumping bags may be used at the outlet of a pump. The bags must be sized appropriately for the amount of flow. The practice needs to be installed on erosion resistant surfaces. The outlet of the pumping bag must be erosion resistant to prevent additional

sedimentation • Pumping operations that are moving clean water through a site are not required to have a pumping bag or similar device at the outlet. The point of discharge should be protected to prevent soil erosion

	со	SOIL NDITIO	N	DE Erance	se mowing 2-3 1/2 inches	MPING Erance	TUTY DS	TER DINESS	oding Erance (days)	Ture Ght (inches)	ergence E (days)	SALT TOLERANCE		
	WET	NORM	DRY	꽃 덕	2 CTO	TRA	뜺핖	MN	5 2 2 2	MAT	BME	GEN.	SOIL	SPRA
CREEPING RED FESCUE FESTUCA RUBRA	2	1	2	1	1	1	MED.	1	20-25	12–18	7-21			S
Kentucky Bluegrass Poa protinsis	2	1	2	1	1	1	MED.	1	25-35	12–18	10-20			М
TALL FESCUE FESTUCA L ARUNDINACEA	2	1	1	1	1	1	LOW	1	24-35	24-36	5-14		Т	
PERENNIAL RYEGRASS LOLIUM PERENNE	2	1	2	-	1	2	Med- High	2	15–20	12–18	5-10		мт	
CROWNVETCH CORANILLA VARIA	-	1	1	2	-	-	LOW	1	5-10	24	14-21	Т		
RED CLOVER TRIFOLIUM PRATENSE	-	1	-	2	I	I	MED.	1	7–10	18	5-10	S	s	
RANKING			SA T	LT T( - TO		ANCE	(TO	B01	'H SOI	SAL	TS AN	D SF	PRAY)	

MT – MEDIUM TOLERANCE S – SLIGHT TOLERANCE 2 MEDIUM - NOT TOLERANT

SEEDBED PREPARATION APPLY LIME TO RAISE THE PH TO THE LEVEL NEEDED FOR SPECIES BEING SEEDED. APPLY 23 LBS. OF 12-12-12 ANALYSIS FERTILIZER (OR EQUIVALENT) PER 1,000 SQ. FT. (APPROXIMATELY 1 000 LBS PER ACRE) OR FERTILIZE ACCORDING TO TEST APPLICATION OF 150 LBS OF AMMONIUM NITRATE ON AREAS LOW IN ORGANIC MATTER AND FERTILITY WILL GREATLY ENHANCE VEGETATIVE GROWTH, WORK THE FERTILIZER AND LIME INTO THE SOIL A DEPTH OF 2 TO 3. NCHES WITH A HARROW, DISK, OR RAKE OPERATED ACROSS THE SLOPE AS MUCH AS POSSIBLE. ERTILIZER AND LIME SHALL MEET REQUIREMENTS OF INDOT STANDARD SPECIFICATIONS 1995.



 
 MHEAT OR RYE
 3.5 LBS.
 2 BU.
 COVER SEED 1" TO 1 1/2" DEEP

 SPRING OATS
 2.3 LBS.
 3 BU.
 COVER SEED 1" DEEP

 ANNUAL RYEGRASS
 1.0 LBS.
 40 LBS.
 COVER SEED 1/4" DEEP \*
 NOT NECESSARY WHERE MULCH IS APPLIED.



EROSION CONTROL BLANKET STAPLE PATTERN DETAIL

	PERMANENT	SEED MIXIU	RES		
SPECIES	SEEDING RATE		SITE	SUITABILIT	Υ
JE LUILJ	LBS/ACRE	SUITABLE PH	DROUGHTY	DRAINED	WET
LEVEL AND SLOPING, OPEN AREAS					
TALL FESCUE	35	5.5 - 8.3	2	1	2
TALL FESCUE RED CLOVER **	25 5	5.5 - 8.3		1	
KENTUCKY BLUEGRASS CREEPING RED FESCUE	15 15	5.5 – 7.5	2	1	
STEEP BANKS AND CUTS					
TALL FESCUE KENTUCKY BLUEGRASS	15 25	5.8 – 7.5	2	1	2
TALL FESCUE EMERALD CROWNVETCH **	35 10	5.5 - 8.3	2	1	
AWNS AND HIGH MAINTENANCE AREAS					
KENTUCKY BLUEGRASS CREEPING RED FESCUE	40 40	5.8 - 7.5	2	1	
PERENNIAL RYEGRASS (TURF TYPE)	170	5.0 - 7.5		1	
TALL FESCUE	170	5.5 - 8.3	2	1	2

# <u>STR. NO. 2021–018452</u>

commencing at the Northwest Corner of the Northeast Quarter of said Section 1 and running thence South O( legrees, 24 minutes 02 seconds West along the West line of said Northeast Quarter Section 1462.63 feet to the Southwest corner of real estate described in Deed Book 246, Page 317 recorded among the records of Johnsor ounty, said point being the Point of Beginning; thence North 89 degrees 52 minutes 02 seconds East along the outh line of said real estate, 447.00 feet to the Southeast corner thereof, thence South 12 degrees 46 minutes 4 seconds East 271.24 feet to a point on the Easterly edge of a paved cart path; thence on the following ifteen (15) courses along the Easterly edge of said paved cart path: (1) South 21 degrees 23 minutes O seconds East 16.11 feet; (2) South 08 degrees 28 minutes 53 seconds East 16.08 feet; (3) South 04 degrees 50 ninutes 40 seconds East 24.95 feet; (4) South 06 degrees 19 minutes 37 seconds East 25.72 feet; (5) South I degrees 53 minutes 11 seconds East 17.82 feet; (6) South 20 degrees 48 minutes 19 seconds East 18.35 eet; (7) South 24 degrees 14 minutes 50 seconds East 25,50 feet; (8) South 27 degrees 00 minutes 10 seconds East 47.17 feet; (9) South 20 degrees 36 minutes 03 seconds East 12.85 feet; (10) South 14 degrees 4 minutes 29 seconds East 20.59 feet; (11) South 10 degrees 02 minutes 50 seconds East 99.68 feet; (12 South 12 degrees 02 minutes 55 seconds East 21.45 feet; (13) South 07 degrees 44 minutes 40 seconds Eas 1.09 feet; (14) South 05 degrees 04 minutes 35 seconds East 52.14 feet; (15) South 02 degrees 48 minutes 50 seconds East 54.37 feet; thence departing Easterly edge of said cart path and running South 35 degrees 46 ninutes 36 seconds East 39.06 feet to a point on the Westerly edge of a field of sea grass as located or August 18, 1999; thence on the following six (6) courses along the Westerly edge of said sea grass: (1) South 7 degrees 47 minutes 25 seconds East 26.14 feet; (2) South 34 degrees 27 minutes 49 seconds East 33.84 eet; (3) South 44 degrees 00 minutes 24 seconds East 10.81 feet; (4) South 18 degrees 19 minutes 18 econds East 10.81 feet; (5) South 10 degrees 50 minutes 58 seconds West 13.68 feet; (6) South 43 degrees 0 minutes 25 seconds West 13.68 feet; thence departing the Westerly edge of said sea grass and running Sout 0 dearees 01 minute 31 seconds East 54.90 feet; thence South 63 degrees 48 minutes 40 seconds East 199.08 eet to a point on the Northerly edge of a field of sea grass as located on August 18, 1999; thence on the ollowing twenty three (23) courses along the meanderings of said sea (1) North 77 degrees 53 minutes 45 seconds East 27,56 feet; (2) North 89 degrees 33 minutes 58 seconds East 35.66 feet; (3) North 81 degrees 2 minutes 01 seconds East 42.34 feet; (4) North 79 degrees 43 minutes 54 seconds East 21.78 feet; (5 South 84 degrees 33 minutes 57 seconds East 21.78 feet; (6) South 66 degrees 36 minutes 18 seconds East 27.99 feet: (7) South 46 dearees 23 minutes 10 seconds East 27.99 feet; (8) South 32 degrees 17 minutes 03 econds East 115.47 feet; (9) South 19 degrees 39 minutes 40 seconds East 26.68 feet; (10) South 01 degree 3 minutes 48 seconds West 22.58 feet; (11) South 06 degrees 04 minutes 17 seconds West 49.62 feet; (1 South 02 degrees 52 minutes 29 seconds East 41.95 feet; (13) South 20 degrees 09 minutes 05 seconds Eas 24,86 feet; (14) South 48 degrees 38 minutes 40 seconds East 26.53 feet; (15) South 71 degrees 55 minutes 15 seconds East 12.99 feet; (16) North 76 dearees 45 minutes 21 seconds East 11.65 feet; (17) North 50 degrees 24 minutes 00 seconds East 21.24 feet; (18) North 43 degrees 55 minutes 57 seconds East 34.46 (19) North 53 degrees 48 minutes 14 seconds East 21.78 feet: (20) North 66 degrees 35 minutes econds East 25.19 feet; (21) North 78 degrees 25 minutes 42 seconds East 18.35 feet; (22) North 88 degrees 44 minutes 37 seconds East 19.59 feet; (23) South 85 degrees 25 minutes 51 seconds East 29.75 feet; thence departing the edge of said sea grass and running South 39 degrees 08 minutes 21 seconds East 127.11 feet to 1 point on the Westerly edge of a field of sea grass as located on August 18, 1999; thence on the following twenty nine (29) courses along the Westerly edge of said sea grass: (1) South 13 degrees 10 minutes 40 seconds East 55.72 feet; (2) South 21 degrees 29 minutes 41 seconds East 27.40 feet; (3) South 31 degrees 39 minutes 53 seconds East 20.36 feet; (4) South 40 degrees 19 minutes 59 seconds East 20.36 feet; (5 South 40 degrees 27 minutes 08 seconds East 167.80 feet; (6) South 35 degrees 01 minute 10 seconds East 29.16 feet; (7) South 25 degrees 49 minutes 52 seconds East 33.86 feet; (8) South 20 degrees 41 minutes 52 seconds East 45.89 feet; (9) South 16 degrees 48 minutes 48 seconds East 86.21 feet; (10) South 10 degrees 36 minutes 37 seconds East 33.81 feet; (11) South 01 degree 54 minutes 11 seconds West 30.84 feet; (12 South 05 degrees 42 minutes 15 seconds East 8.69 feet; (13) South 41 degrees 58 minutes 19 seconds East 14.00 feet; (14) South 53 degrees 14 minutes 44 seconds East 42.35 feet; (15) South 39 degrees 36 minutes 19 seconds East 47.18 feet; (16) South 26 degrees 56 minutes 44 seconds East 16.12 feet; (17) South 05 degrees 21 minutes 20 seconds East 21.88 feet; (18) South 09 degrees 52 minutes 03 seconds West 19.81 feet; 9) South 22 degrees 41 minutes 20 seconds West 33.52 feet; (20) South 37 degrees 43 minutes 36 seconds West 30.88 feet; (21) South 49 degrees 35 minutes 04 seconds West 39.54 feet; (22) South 60 degrees 12 ninutes 20 seconds West 34.82 feet; South 66 degrees 25 minutes 55 econds West 40.39 feet; (24) South 66 degrees 14 minutes 46 seconds West 40.52 feet; (25) South 59 degrees 39 minutes 26 seconds West 9.30 feet; 26) South 43 degrees 19 minutes 14 seconds West 9.96 feet; (27) South 24 degrees 53 minutes 40 seconds West 10.58 feet; (28) South 02 degrees 47 minutes 04 seconds West 8.65 feet; (29) South 07 degrees 40 minutes 39 seconds East 11.42 feet; thence departing the Westerly edge of said sea grass and running South 80 legrees 08 minutes 24 seconds West 496.08 feet; thence North 77 degrees 22 minutes 37 seconds West 301.32 et; thence North 57 degrees 45 minutes 24 seconds West 33.83 feet to a point on the Southerly edge of c paved cart path; thence on the following ten (10) courses along the Southerly and Westerly meandering edge of aid paved cart path: (1) North 61 degrees 56 minutes 08 seconds West 57.94 feet; (2) North 74 degrees 04 minutes 52 seconds West 35.18 feet; (3) North 88 degrees 01 minute 47 seconds West 16.00 feet; (4) South 68 degrees 57 minutes 06 seconds West 17.04 feet; (5) South 57 degrees 57 minutes 15 seconds West 26.29 feet; δ) South 46 degrees 36 minutes 46 seconds West 24.37 feet; (7) South 39 degrees 11 minutes 05 seconds West 14.37 feet; (8) South 25 degrees 19 minutes 27 seconds West 16.65 feet; (9) South 18 degrees 25 ninutes 05 seconds West 31.27 feet; (10) South 15 degrees 08 minutes 01 second West 104.64 feet; thenc departing edge of said paved cart path and running South 14 degrees 19 minutes 47 seconds West 26.04 feet to 1 point in the center line of a paved cart path; thence on the following four (4) courses along the center line of said paved cart path: (1) North 52 degrees 51 minutes 48 seconds West 54.76 feet; (2) North 41 degrees 06 ninutes 23 seconds West 68.91 feet to a point on a non—tangent curve concave to the Southwest, having c central angle of 51 degrees 18 minutes 16 seconds and a radius of 169.37 feet; (3) Northwesterly and Westerly ilong said curve an arc distance of 151.66 feet (said curve being subtended by a chord having a bearing o North 61 degrees 12 minutes 44 seconds West and a length of 146.65 feet; (4) North 85 degrees 50 minutes 02 seconds West 98.70 feet; thence departing the center line of said paved cart path and running North 00 dearee 54 minutes 26 seconds East 31.64 feet; thence North 87 degrees 05 minutes 33 seconds West 181.97 feet to  $\circ$ point on the Easterly edge of a gravel drive, said point being on a non—tangent curve concave to the Southwest, aving a central edge of angle of 29 degrees 40 minutes 41 seconds and a radius of 86.05 feet; thence Northwesterly along said gravel drive and said curve an arc distance of 44.57 feet (said curve being subtendec y a chord having a bearing of North 42 degrees 14 minutes 26 seconds West and a length of 44.07 feet hence North 89 degrees 35 minutes 58 seconds West 15.42 feet to a point on the West line of the Southeast Quarter of said section 1: thence North 00 dearees 24 minutes 02 seconds East along the West line of said Ha Section 399.54 feet to the Northwest comer of real estate described in said Instrument 98014148: thenci ontinuing North 00 degrees 24 minutes 02 seconds East along the West line of said Half Section 984.32 feet to he Center of said Section; thence South 83 degrees 17 minutes 05 seconds East 449.48 feet; thence North 00 🚺 degrees 24 minutes 02 seconds East parallel to said West line 233.46 feet; thence South 89 degrees 24 minutes seconds West 446.82 feet to the West line of said Half Section; thence North 00 degrees 24 minutes 02 seconds East along said West line 507.25 feet to the Point of Beginning.

ogether with non—exclusive easements for easements for access, ingress of pedestrian and golf cart traffic ar or the unobstructed right to use and practice upon the golf course driving range pursuant to Declaration of asement by and between LO.I. Limited Partnership, an Indiana limited partnership and Indiana Golf Foundation, ar ndiana charitable foundation dated September 28, 1999 and recorded October 7, 1999 as Instrument No.1999-29196, as amended by that Certain Easement Amendment by and between LO.I. Limited Partnership ndiana limited partnership and Indiana Golf Foundation,an Indiana charitable foundation dated September 18, 2002 ind recorded October 25, 2002 as Instrument No. 2002-035824.

Part of the Southeast Quarter of the Southwest Quarter of Section 1, Township 12 North, Range 4 East of the Second Principal Meridian in Needham Township, Johnson County, Indiana, being part of land conveyed to Frances Wright as described among the records of Johnson County. Indiana in Deed Book 247, page 200 (hereinafter referred to as the Wright property),being more particularly described as follows:

Beginning at the Northeast corner of said Quarter—Quarter Section and running South 00 degrees 24 minutes 03 seconds West along the East line thereof 34.39 feet to the Southwest corner of land conveyed to Indiana Gol oundation as described among the records of Johnson County, Indiana in instrument Number 1999—29195; hence departing said East line of said Quarter—Quarter Section and running North 89 degrees 35 minutes 55 econds West 30.49 feet to the center line of Hurricane Road; thence North 00 legrees 26 minutes 36seconds East 37.76 feet to a point on the North line of the Southeast Quarter of tl Southwest Quarter of said Section 1, said point being on the North line of said Wright property: thence South 83 degrees 17 minutes 05 seconds East along the North line of the Southeast Quarter of the Southwest Quarter of Section 1and the North line of said Wright property 30.65 feet to the Point of Beginning.





#### LEGAL DESCRIPTION

Part of the East half of Section 1, Township 12 North, Range 4 East of the Second Principal Meridian. Needham ownship, Johnson County, Indiana, and being part of the (and of L.O.I., and Indiana limited Partnership as recorded among the records of Johnson County,Indiana in Deed Book 261, page 113 and also being a part of the and of L.O.I., Limited Partnership as recorded among the records of Johnson County, Indiana in Instrument 98014148, being more particularly described as follows:

Johnson County, Indiana (IN081)

#### CROSBY SILT LOAM (CrA) This nearly level soil is on broad plains, on ridge tops in rolling areas, or in low drainageways. Slopes are 0 to 2 percent. Runoff is slow. Wetness is the main limitation.Soil has limitations for building sites and must be artificially drained and protected from flooding.

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MIAMI SILT LOAM (MmB2) This gently sloping soil is along drainageways that cross areas of somewhat poorly drained Crosby soils. Slopes are 2 to 6 percent. Runoff is medium. Moderate erosion is the main limitation



EARTHWORK	F. SURFACE COURSE: SPREAD AND ROLL TO MINIMUM FINISH DEPTH IND ELEVATION SHALL BE TRUE TO LINE AND GRADE WITHIN ½" OF TRUE ELEVATION SHALL BE TRUE TO LINE AND GRADE WITHIN 20"
1. SCOPE OF WORK A. EXTENT: THE WORK REQUIRED UNDER THIS SECTION CONSISTS OF ALL EXCAVATING, FILLING, ROUGH GRADING AND RELATED ITEMS NECESSARY TO COMPLETE THE WORK INDICATED ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY IN WRITING THE OWNER AND THE ENGINEER OF ANY CHANGES, ERRORS OR OMISSIONS FOUND ON THE PLANS OR IN THE FIELD, BEFORE WORK IS STARTED OR PESILMED.	<ul> <li>G. PAVER PLACING: PLACE IN STRIPS NOT LESS THAN TO WIDE, UNLESS ARCHITECT/ENGINEER. AFTER FIRST STRIP HAS BEEN PLACED AND ROLLED AND EXTEND ROLLING TO OVERLAP PREVIOUS STRIPS. COMPLETE BINDE BEFORE PLACING SURFACE COURSE.</li> <li>H. JOINTS: MAKE JOINTS BETWEEN OLD AND NEW PAVEMENTS, OR BETWEEN ADJOININ SUCCESSIVE DAYS WORK, TO ENSURE CONTINUOUS BOND BETWEEN ADJOININ</li> </ul>
1. IN GENERAL, THE ITEMS OF WORK TO BE PERFORMED UNDER THIS SECTION SHALL INCLUDE CLEARING AND GRUBBING, REMOVAL OF TREES AND STUMPS, STRIPPING AND STORAGE OF TOPSOIL, FUL COMPACTION AND POLICE CRADING OF ENTIRE SITE ALL TREES SHALL BE PEMOVED UNLESS.	TO HAVE SAME TEXTURE, DENSITY AND SMOOTHNESS AS OTHER SECTIONS AND APPLY TACT COAT. 6. ROLLING
OTHERWISE NOTED IN PLANS OR DIRECTED BY OWNER. 2. EXCAVATED MATERIAL THAT IS SUITABLE MAY BE USED FOR FILLS. ALL UNSUITABLE MATERIAL AND	A. GENERAL: BEGIN ROLLING WHEN MIXTURE WILL BEAR ROLLER WEIGHT WITHOU I) COMPACT MIXTURE WITH HOT HAND TAMPERS OR VIBRATING PLA INACCESSIBLE TO ROLLERS.
LOCATION OF DUMP AND LENGTH OF HAUL SHALL BE THE CONTRACTOR'S RESPONSIBILITY. 3. PROVIDE AND PLACE ANY ADDITIONAL FILL MATERIAL FROM OFF THE SITE AS MAY BE NECESSARY	B. BREAKDOWN ROLLING: ACCOMPLISH BREAKDOWN OR INITIAL ROLLING IMMEDIA JOINTS AND OUTSIDE EDGE. CHECK SURFACE AFTER BREAKDOWN ROLLI AREAS BY LOOSENING AND FILLING IE REOLURED, WITH HOT MATERIAL
4. THE CONTRACTOR SHALL ACCEPT THE SITE AS HE FINDS IT AND SHALL REMOVE ALL TRASH,	C. SECOND ROLLING: FOLLOW BREAKDOWN ROLLING AS SOON AS POSSIBL CONTINUE SECOND ROLLING UNTIL MIXTURE HAS BEEN THOROUGHLY COMPAC D. FINISH ROLLING: PERFORM FINISH ROLLING WHILE MIXTURE IS STILL WARM
2. BENCHMARK A. MAINTAIN CAREFULLY ALL BENCH MARKS, MONUMENTS AND OTHER REFERENCE POINTS; IF DISTURBED OR	ROLLER MARKS. CONTINUE ROLLING UNTIL ROLLER MARKS ARE ELIMINATED MAXIMUM DENSITY. E. PATCHING: REMOVE AND REPLACE PAVING AREAS MIXED WITH FOREIGN
3. REMOVAL OF TREES A. THE INTEGRITY OF THE TOPOGRAPHIC FEATURES (INCLUDING TREES) SHALL BE PERSEVERED AS MUCH AS	AREAS. CUT OUT SUCH AREAS AND FILL WITH FRESH, HOT BITUMINOUS A ROLLING TO MAXIMUM SURFACE DENSITY AND SMOOTHNESS. F. PROTECTION: AFTER FINAL ROLLING, DO NOT PERMIT VEHICULAR TRAFFIC
POSSIBLE THE CONTRACTOR SHALL COORDINATE WITH OWNER AND/OR ENGINEER PRIOR TO CLEARING THE SITE FOR CONSTRUCTION. B. ALL BRUSH, STUMPS, WOOD AND OTHER REFUSE FROM THE TREES REMOVED SHALL BE HAULED TO	COOLED AND HARDENED. G. ERECT BARRICADES TO PROTECT PAVING FROM TRAFFIC UNTIL MIXTURE H BECOME MARKED.
DISPOSAL AREAS OFF OF THE SITE. DISPOSAL BY BURNING SHALL NOT BE PERMITTED UNLESS PROPER PERMITS ARE OBTAINED (WHERE APPLICABLE). . HANDLING OF TOPSOIL	7. TRAFFIC AND LANE MARKINGS A. CLEANING: SWEEP AND CLEAN SURFACE TO ELIMINATE LOOSE MATERIAL AND B. STRIPPING: USE CHLORINATED RUBBER BASE TRAFFIC LANE—MARKIN
A. REMOVE ALL ORGANIC MATERIAL FROM THE AREAS TO BE OCCUPIED BY BUILDINGS, ROADS, WALKS AND PARKING AREAS. PILE AND STORE TOPSOIL AT A LOCATION WHERE IT WILL NOT INTERFERE WITH CONSTRUCTION OPERATIONS. TOPSOIL SHALL BE REASONABLE FREE FROM SUBSOIL, DEBRIS, WEEDS,	QUICK-DRYING, AND NON-BLEEDING. COLOR: WHITE I) DO NOT APPLY TRAFFIC AND LANE MARKING PAINT UNTIL LAYOUT
GRASS, STONES, ETC. B. AFTER COMPLETION OF SITE GRADING AND SUBSURFACE UTILITY INSTALLATION, TOPSOIL SHALL BE REPLACED IN AREAS DESIGNATED ON THE EROSION CONTROL PLAN FOR SEEDING AND/OR SODDING. ANY	VERIFIED WITH ARCHITECT/ENGINEER. II) APPLY PAINT WITH MECHANICAL EQUIPMENT TO PRODUCE UNIFORM STF COATS AT MANUFACTURER'S RECOMMENDED RATES.
REMAINING TOPSOIL SHALL BE USED FOR FINISHED GRADING AROUND STRUCTURES AND LANDSCAPING AREAS. D. DISPOSITION OF UTILITIES	<ul> <li>8. FIELD QUALITY CONTROL</li> <li>A. TESTING AND INSPECTION SERVICE:</li> <li>I) OWNER SHALL EMPLOY A TESTING LABORATORY TO PERFORM PAVEME</li> </ul>
<ul> <li>RULES AND REGULATIONS GOVERNING THE RESPECTIVE UTILITIES SHALL BE OBSERVED IN EXECUTING ALL WORK UNDER THIS SECTION.</li> <li>IF ACTIVE UTILITIES ARE ENCOUNTERED BUT NOT SHOWN ON THE DRAWINGS, THE ENGINEER SHALL BE</li> </ul>	SERVICE FOR QUALITY CONTROL DURING PAVING OPERATIONS. II) TESTING SERVICE SHALL HAVE REPRESENTATIVE PRESENT TO OBSERVE TIMES PAVING WORK IS IN PROGRESS.
ADVISED BEFORE WORK IS CONTINUED. C. INACTIVE AND ABANDONED UTILITIES ENCOUNTERED IN EXCAVATING AND GRADING OPERATIONS SHALL BE REPORTED TO THE ENGINEER. THEY SHALL BE REMOVED, PLUGGED OR CAPPED AS DIRECTED BY THE	B. GENERAL: TESTING SERVICE REPRESENTATIVE SHALL TAKE A MINIMUM OF BITUMINOUS AGGREGATE MIX EACH DAY BEFORE PAVING OPERATION. L. PERFORMED ON THESE SAMPLES TO DETERMINE AGGREGATE GRADATION AND
D. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO VERITY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS PHASE OF THE WORK. IT SHALL ALSO BE THE CONTRACTOR'S	I) TEST IN-PLACE COMPACTED BITUMINOUS AGGREGATE MIX COURS REQUIREMENTS FOR THICKNESS, DENSITY AND AIR VOIDS AND SURFA REMOVE AND REPLACE UNACCEPTABLE PAVING AS DIRECTED BY ENGIN
RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES BEFORE WORK IS STARTED. SITE GRADING A. GRADES: CONTRACTOR SHALL PERFORM ALL CUTTING, FILLING, COMPACTING OF FILLS AND ROUGH	II) A TEST SECTION AT A MINIMUM SIZE OF 100'X12' SHALL BE PLACED BY THE COUNTY PRIOR TO FULL PRODUCTION FOR EACH TYPE OF M BE COMPACTED TO DETERMINE A TARGET DENSITY FOR THE REMAINDER
GRADING REQUIRED TO BRING ENTIRE PROJECT AREA TO GRADE AS SHOWN ON THE DRAWINGS. B. ROUGH GRADING: THE TOLERANCE FOR PAVED AREAS SHALL NOT EXCEED 0.10 FEET PLUS OR MINUS ABOVE THE ESTABLISHED SUBGRADE. ALL OTHER AREAS SHALL NOT EXCEED 0.10 FEET PLUS OR MINUS	C. THICKNESS: IN-PLACE COMPACTED THICKNESS WILL NOT BE ACCEPTABL ALLOWABLE VARIATION FROM REQUIRED THICKNESS: AGGREGATE BASE COURSE: 5" PLUS OR MINUS
IHE ESTABLISHED GRADE. ALL BANKS AND OTHER BREAKS IN GRADE SHALL BE ROUNDED AT THE TOP AND BOTTOM. C. COMPACTION REQUIREMENTS:	BASE COURSE: ½", PLUS OR MINUS BINDER COURSE: ¼", PLUS OR MINUS SUBFACE COURSE: ¼", PLUS OR MINUS
<ol> <li>ALL BUILDING PAD AREAS SHALL BE COMPACIED TO STANDARDS SPECIFIED BY LOCAL AND/OR STATE BUILDING CODES.</li> <li>COMPACTION REQUIREMENTS OF PAVED AREAS SHALL BE 95% OF MAXIMUM DRY DENSITY.</li> </ol>	<ul> <li>A MINIMUM OF TWO PAVEMENT CORES PER COMPACTED LIFT SHALL B TAKEN AT LOCATIONS AND AT TIMES OF DAY AS DIRECTED BY FOLLOWING TESTS SHALL BE PERFORMED BY THE TESTING SERVICE ON</li> </ul>
A. THE CONTRACTOR SHALL CONFIRM ALL EARTHWORK QUANTITIES PRIOR TO START OF CONSTRUCTION. IF AN EXCESS OR SHORTAGE OF EARTH IS ENCOUNTERED, THE CONTRACTOR SHALL CONFIRM WITH THE	<ul> <li>II) A TEST SECTION AT A MINIMUM SIZE OF 100'X12' SHALL BE PLACED</li> <li>BY THE COUNTY PRIOR TO FULL PRODUCTION FOR EACH TYPE OF MI BE COMPACTED TO DETERMINE A TARGET DENSITY OF THE REMAINDER</li> </ul>
OWNER AND ENGINEER THE REQUIREMENTS FOR STOCKPILING, REMOVAL OR IMPORTING OF EARTH. MINOR ADJUSTMENTS TO THE GRADES MAY BE REQUIRED TO EARTHWORK BALANCES WHEN MINOR	D. PAVEMENT THICKNESS DENSITY AIR VOIDS
THE CALCULATIONS OF THE ENGINEER IN ACCORDANCE WITH THE AMERICAN SOCIETY OF CIVIL ENGINEERS STANDARDS FOR SUCH CALCULATIONS. FURTHER, THAT THESE CALCULATIONS ARE SUBJECT TO THE INTERPRETATIONS OF SOLI POPINGS AS THE DEVISION LIMITS IN FINISH CRADE AND COMPACTION	<ol> <li>TESTING SERVICE SHALL SUBMIT CERTIFIED RESULTS TO THE OWNE WITHIN 72 HOURS AFTER TESTS ARE MADE, WITH THEIR COMMENTS ACTION.</li> </ol>
PERMITTED THE CONTRACTOR, AND THAT ALL OF THESE PARAMETERS MAY CAUSE EITHER AN EXCESS OR SHORTAGE OF ACTUAL EARTHWORK MATERIALS TO COMPLETE THE PROJECT. IF SUCH AN ACTUAL MINOR EXCESS OR SHORTAGE OF ACTUAL EARTHWORK MATERIALS OCCURS THE CONTRACTOR SHALL	II) PAVEMENT WHICH FAILS TO COMPLY WITH APPROVED JOB MIX FORM DIRECTED BY THE ARCHITECT/ENGINEER. E SURFACE SMOOTHNESS: TEST FINISHED SURFACE FOR SMOOTHNESS USING
CONTACT THE ENGINEER TO DETERMINE IF ADJUSTMENTS CAN BE MADE TO CORRECT THE IMBALANCE OF EARTH.	PARALLEL WITH, AND AT RIGHT ANGLES TO CENTERLINE OF PAVED AN ACCEPTABLE IF EXCEEDING THE FOLLOWING TOLERANCES FOR SMOOTHNESS.
	BASE COURSE SURFACE: 1/4" BINDER COURSE SURFACE: 1/8" WEAPING COURSE SURFACE: 1/8"
A. THE WORK REQUIRED UNDER THIS SECTION INCLUDES ALL CONCRETE AND BITUMINOUS PAVING AND RELATED ITEMS NECESSARY TO COMPLETE THE WORK INDICATED ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS INCLUDING BUT NOT LIMITED TO:	I) CHECK SURFACED AREAS AT INTERVALS AS DIRECTED BY TESTING SERVIC F. DENSITY TESTS: DENSITY TESTS SHALL BE MADE AT EACH LIFT. TEST SHALL
<ol> <li>ALL STREETS, PARKING AREAS WITHIN THE CONTRACT LIMITS.</li> <li>CURBS AND CONCRETE RAMPS.</li> <li>SIDEWALKS AND CONCRETE SLABS.</li> </ol>	G. TESTING SERVICE SHALL SUBMIT CERTIFIED RESULTS TO THE OWNER AND AFTER TESTS ARE MADE WITH THEIR COMMENTS AND RECOMMENDATIONS FO
<ul> <li>4. IN THE CASE OF ANY CONFLICTS WITH THESE SPECIFICATIONS AND LOCAL, STATE, FEDERAL SPECIFICATIONS THE MORE STRINGENT SHALL APPLY.</li> <li>B. IN THE CASE OF ANY CONFLICTS WITH THESE SPECIFICATIONS AND LOCAL, STATE, FEDERAL</li> </ul>	<ul> <li>I) SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH THE MOST C SPECIFICATION. NO TRAFFIC SHALL BE PERMITTED ON THE PREPARED S</li> <li>II) SEE SITE GRADING LINDER THE 'FARTHWORK' SECTION FOR ADDITIONAL</li> </ul>
SPECIFICATIONS THE MORE STRINGENT SHALL APPLY. PAVEMENT CONSTRUCTION A. ALL STREET CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND	9. APPLICATION A. GRADING: DO ANY NECESSARY GRADING IN ADDITION TO THAT PERFO FARTHWORK SECTION TO BRING SUBGRADES AFTER FINAL COMPACTION TO
CONFORM TO THE MINIMUM STANDARDS OF THE CITY OF FRANKLIN ENGINEERING DEPARTMENT, AND IF THERE ARE AREAS UNDEFINED USE THE MOST CURRENT I.N.D.O.T. STANDARD SPECIFICATION. B. FLEXIBLE PAVEMENT	SECTIONS FOR SITE IMPROVEMENTS. B. PREPARATION OF SUBGRADE: REMOVE SPONGY AND OTHERWISE UNSUITABLE STABLE MATERIAL. NO TRAFFIC WILL BE ALLOWED ON PREPARED SUBGRADE
<ol> <li>MATERIALS</li> <li>A. GENERAL: USE LOCALLY AVAILABLE MATERIALS AND GRADATIONS WHICH EXHIBIT A SATISFACTORY RECORD OF PREVIOUS INSTALLATIONS.</li> </ol>	C. COMPACTION OF SUBGRADE: THE FIRST 6 INCHES BELOW THE SUBGRADE S LEAST 100% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE F WATER SHALL BE PREVENTED FROM STANDING ON THE COMPACTED SUBGRA
B. COMPACTED AGGREGATE BASE: SOUND, ANGULAR CRUSHED LIMESTONE, CRUSHED OR UNCRUSHED GRAVEL, OR CRUSHED OR PROCESSED AIR-COOLED BLAST FURNACE SLAG. COURSE AGGREGATE SHALL BE CLASS A, TYPE "O" AND CONFORM TO THE MOST CURRENT	D. UTILITY STRUCTURES: CHECK FOR CORRECT ELEVATION OF ALL MANHOLE SIMILAR STRUCTURES LOCATED WITHIN AREAS TO BE PAVED, AND M NECESSARY ADJUSTMENTS IN SUCH STRUCTURES.
I.N.D.O.T. STANDARD SPECIFICATION. C. BASE COURT AGGREGATE: SOUND, ANGULAR CRUSHED STONE, CRUSHED OR UNCRUSHED GRAVEL, OR CRUSHED SLAG, SAND, STONE, OR SLAG SCREENINGS. COARSE AGGREGATES SHALL	<ul> <li>E. PLACING CONCRETE</li> <li>1. SUBGRADE: PLACE CONCRETE ONLY ON A MOIST, COMPACTED SUBGRADE</li> <li>MATERIAL. PLACE NO CONCRETE ON A MUDDY OR FROZEN SUBGRADE.</li> </ul>
<ul> <li>BE CLASS A OR B AND CONFORM TO I.N.D.O.T. STANDARDS SPECIFICATIONS SECTION 903.</li> <li>D. COARSE AGGREGATE FOR SURFACE AND BINDER MIXTURES: CRUSHED STONE, CRUSHED GRAVEL, CRUSHED SLAB, AND SHARP EDGED NATURAL SAND. SURFACE COARSE AGGREGATES SHALL BE</li> </ul>	2. FORMS: ALL FORMS SHALL BE FREE FROM WARP, TIGHT ENOUGH SUBSTANTIAL ENOUGH TO MAINTAIN THEIR SHAPE AND POSITION WITH WHEN CONCRETE IS PLACED. FORMS SHALL BE CLEAN AND SMAND SMAND SMAND
CLASS A AND CONFORM TO I.N.D.O.T. STANDARD SPECIFICATIONS SECTION 903. E. ASPHALT CEMENT: PETROLEUM ASPHALT CEMENT, AP 5 WITH PENETRATION OF 60-70 OR VISCOSITY GRADED ASPHALT CEMENT AC-20 CONFORMING TO THE MOST CURRENT I.N.D.O.T. STANDARD SPECIFICATION	CONCRETING. 3. PLACING CONCRETE: CONCRETE SHALL BE DEPOSITED SO AS TO REQUIF PRACTICABLE. WHEN CONCRETE IS TO BE PLACED AT AN ATMOSF
F. PRIME COAT: MEDIUM-CURE LIQUID ASPHALT OR ASPHALT EMULSION CONFORMING TO THE MOST CURRENT I.N.D.O.T. STANDARD SPECIFICATION.	DEGREES F. OR LESS, THE MOST CURRENT I.N.D.O.T. STANDARD FOLLOWED. F. CONCRETE CURB
<ul> <li>HAR CONT. INTERCONCE LIGHT ASTRACT ON ASTRACT EMOLSION CONTONING TO THE MOST CURRENT I.N.D.O.T. STANDARD SPECIFICATION.</li> <li>H. LANE MARKING PAINT: CHLORINATED RUBBER-ALKYD TYPE, AASHTO M248 (FS TT-P-115), TYPE III</li> </ul>	<ol> <li>EXPANSION JOINTS: SHALL BE 1/2 INCH THICK PREMOULDED AT ENDS MAXIMUM SPACING OF 100 FEET.</li> <li>CONTRACTION JOINTS UNLESS OTHERWISE PROVIDED, CONTRACTION JOINTS UNLESS OTHERWISE PROVIDED, CONTRACTION JOINTS</li> </ol>
ASPHALT-AGGREGATE MIXTURE ALL BITUMINOUS MIXTURES ARE TO CONFORM TO CURRENT I.N.D.O.T. SPECIFICATIONS	3. FINISH: TAMP AND SCREED CONCRETE AS SOON AS PLACED, AND FILL FINISH SQUARE CORNERSTONE 1/4 INCH RADIUS AND OTHER CORNERS
A. SURFACE COURSE: HMA SURFACE 9.5mm B. BINDER COURSE: HMA INTERMEDIATE 19.0mm C. BASE COURSE: TYPE: HMA BASE 25.0mm **PROVIDED A LOR MUX FORMULA FOR FACH TYPE OF ASPHALT PRIOR TO THE RECINING OF THE	G. CONCRETE WALKS AND EXTERIOR STEPS 1. SLOPES: PROVIDE ½ INCH PER FOOT CROSS SLOPE. MAKE ADJUSTI INTERSECTIONS AS NECESSARY TO PROVIDE PROPER DRAINAGE. 2. DIMENSIONS WALKS AND STEPS CONFERENCE CONSTRUCTION
CONSTRUCTION PROJECT. SURFACE PREPARATION	<ol> <li>2. DIMENSIONS: WALKS AND STEPS SHALL BE ONE COURSE CONSTRUCTION SHOWN ON THE DRAWINGS.</li> <li>3. FINISH: SCREED CONCRETE AND TROWEL WITH A STEEL TROWEL TO A SUBJECT WATER HAS DISAPPEADED. ADDIX MEDIUM PROOM FINISH AND</li> </ol>
<ul> <li>REMOVE LOOSE MATERIAL FROM COMPACTED SUBBASE SURFACE IMMEDIATELY BEFORE APPLYING PRIME COAT.</li> <li>PROOF ROLL SUBGRADE SURFACE WITH LOADED TRI-AXLE TRUCK (48 HOUR NOTICE IS REQUIRED TO</li> </ul>	AT A CUBER CONTRACT AND AN AND AN
BE GIVEN TO THE CITY OF FRANKLIN ENGINEERING DEPT.) TO CHECK FOR UNSTABLE AREAS AND AREAS REQUIRING ADDITIONAL COMPACTION. II) NOTIFY CONTRACTOR OF UNSATISFACTORY CONDITIONS. DO NOT BEGIN PAVING WORK UNTIL	I. CORING CONCRETE FOR WALKS AND CORBS. EACEFT AS OTHERWISE SPECIF ONE OF THE METHODS DESCRIBED IN THE MOST CURRENT I.N.D.O.T. STANDA I. BITUMINOUS PAVEMENT: HOT MIX ASPHALT PAVEMENT SHALL BE AS SPEC IN D.O.T. STANDARD SPECIFICATION PAVING WIL NOT BE PERMITTED DURING
DEFICIENT SUBBASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING. B. AGGREGATE BASE: AFTER PLACEMENT, PROOF ROLL COMPACTED AGGREGATE BASE SURFACE TO CHECK FOR UNSTABLE AREAS AND AREAS REQUIRING ADDITIONAL COMPACTION.	THEN THE TEMPERATURE IS 40 DEGREES F. AND FALLING. J. COMPACTED AGGREGATE SUBBASE: THE THICKNESS SHOWN ON THE DRAWING OF THE FULL COMPACTED SUBBASE. COMPACTION SHALL BE ACCOMPLISHED
<ul> <li>I) NOTIFY CONTRACTOR OF UNSATISFACTORY CONDITIONS. DO NOT BEGIN PAVING WORK UNTIL DEFICIENT AGGREGATE BASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING.</li> <li>II) REMOVE LOOSE MATERIAL FROM COMPACTED AGGREGATE BASE SURFACE IMMEDIATELY REFORE</li> </ul>	WHEELED ROLLER WEIGHING 8 TO 10 TONS. COMPACT TO 95% COMPACTION PROCEDURES. ALONG CURBS, HEADERS AND WALLS AND AT ALL PLAC ROLLER. THE AGGREGATE MATERIAL SHALL RE TAMPED WITH MECHANICAL
APPLYING PRIME COAT. PLACING THE MIX A. GENERAL: PLACE BITUMINOUS AGGREGATE MIXTURE ON PREPARED SURFACE SOREAD AND STOKE OFF	HAND TAMPERS. K. CONCRETE RAMPS 1. CONCRETE RAMPS FOR THE DISARIED SHALL BE REGULARED AS SPECIFIC
AND STRIKE OF AND STRIKE-UFF. SPREAD MIXTURE AT MINIMUM TEMPERATURE OF 225 DEGREES F.(107 DEGREES C). PLACE INACCESSIBLE AND SMALL AREAS BY HAND. PLACE EACH COURSE TO REQUIRED GRADE, CROSS-SECTION, AND COMPACTED THICKNESS	CONFORM WITH CURRENT SPECIFICATIONS ESTABLISHED BY THE AMER SECTION 4.7, "CURB RAMPS." 2 THE CONCRETE RAMP SHALL BE ELICH AND EREE OF ADDURT CURANO
B. BASE COURSE, COMPACTED AGGREGATE: SPREAD AND COMPACT IN TWO LIFTS AS FOLLOWS: I) FIRST LIFT: NO. 5'S SHALL BE A MINIMUM OF 4" OR ½ THE TOTAL DEPTH OF AGGREGATE. EXTEND THE FIRST LIFT A" OF A DISTANCE FOUND TO THE DEPTH OF THE LIFT DEVOND THE GEORGIE LIFT	2. THE CONVELLE NAME STALL BE FLUSH AND FREE OF ABRUPT CHANGE OR STREETS, AND PROVIDE A MAXIMUM SLOPE OF 1:12. 3. THE MINIMUM WIDTH OF A CONCRETE RAMP SHALL BE (48) INCHES EXCL 4. SIDES OF CONCRETE PANDS SHALL HAVE FLADED SIDES AS SHOWN WE
ITE FIRS LIFT 4 OR A DISTANCE EQUAL TO THE DEPTH OF THE LIFT BEYOND THE SECOND LIFT. II) SECOND LIFT: SIZE NO. 53 C. PRIME COAT: SUBBASE SURFACE SHALL BE PRIMED IN ACCORDANCE WITH THE APPLICABLE PROMPENENTS OF THE MOST OUPPENT IN D.C.T. STRUCTOR STRUCTURE	4. SIVES OF CUNCRETE RAMPS SHALL HAVE FLARED SIDES AS SHOWN IN TH
REQUIREMENTS OF THE MOST CURRENT I.N.D.O.T. STANDARD SPECIFICATION. D. HOT ASPHALT CONCRETE BINDER COURSE: SPREAD AND ROLL TO MINIMUM FINISH DEPTHS INDICATED ON DETAILS.	
E. TACK CUAT: BINDER COURSE SHALL BE TACKED PRIOR TO THE INSTALLATION OF THE SURFACE COURSE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE MOST CURRENT I.N.D.O.T. STANDARD SPECIFICATION.	

#### NUM FINISH DEPTH INDICATED ON DETAILS. FINISH STORM SEWER SYSTEMS THIN $\frac{1}{2}$ " OF TRUE ELEVATIONS.

HAN 10' WIDE, UNLESS OTHERWISE ACCEPTABLE TO 1. SCOPE OF WORK RIPS. COMPLETE BINDER COURSE FOR A SECTION

EMENTS, OR BETWEEN PAVER PASSES, OR BETWEEN S AS OTHER SECTIONS. CLEAN CONTACT SURFACES A. STORM SEWERS

ROLLER WEIGHT WITHOUT EXCESSIVE DISPLACEMENT. OR VIBRATING PLATE COMPACTORS IN AREAS INITIAL ROLLING IMMEDIATELY FOLLOWING ROLLING OF TER BREAKDOWN ROLLING, AND REPAIR DISPLACED

AS SOON AS POSSIBLE, WHICH MIXTURE IS HOT. THOROUGHLY COMPACTED. IXTURE IS STILL WARM ENOUGH FOR REMOVAL OF ARKS ARE ELIMINATED AND COURSE HAS ATTAINED

MIXED WITH FOREIGN MATERIALS AND DEFECTIVE SH, HOT BITUMINOUS AGGREGATE MIX. COMPACT BY

VEHICULAR TRAFFIC ON PAVEMENT UNTIL IT HAS AFFIC UNTIL MIXTURE HAS COOLED ENOUGH NOT TO 3. APPLICATION

E LOOSE MATERIAL AND DUST. TRAFFIC LANE-MARKING PAINT, FACTORY MIXED,

PAINT UNTIL LAYOUT AND PLACEMENT HAS BEEN PRODUCE UNIFORM STRAIGHT EDGES. APPLY IN TWO

TO PERFORM PAVEMENT TESTING AND INSPECTION PRESENT TO OBSERVE AND PERFORM TESTS AT ALL

TAKE A MINIMUM OF TWO SAMPLES PER LIFT OF PAVING OPERATION. LABORATORY TEST SHALL BE EGATE GRADATION AND ASPHALT CONTENT. GREGATE MIX COURSES FOR COMPLIANCE WITH AIR VOIDS AND SURFACE SMOOTHNESS. REPAIR OR S DIRECTED BY ENGINEER. 2' SHALL BE PLACED AT A LOCATION AS DIRECTED

OR EACH TYPE OF MIX. THE TEST SECTION SHALL Y FOR THE REMAINDER OF THE PAVEMENT. NOT BE ACCEPTABLE IF EXCEEDING FOLLOWING

IPACTED LIFT SHALL BE TAKEN. CORES ARE TO BE DAY AS DIRECTED BY THE TESTING SERVICE. THE TESTING SERVICE, ON EACH PAVEMENT CORE: 2' SHALL BE PLACED AT A LOCATION AS DIRECTED FOR EACH TYPE OF MIX. THE TEST SECTION SHALL TY OF THE REMAINDER OF THE PAVEMENT.

ESULTS TO THE OWNER AND ARCHITECT/ENGINEER WITH THEIR COMMENTS AND RECOMMENDATIONS FOR PROVED JOB MIX FORMULA SHALL BE REPLACED AS

SMOOTHNESS, USING 10' STRAIGHTEDGE APPLIED ERLINE OF PAVED AREA. SURFACE WILL NOT BE

TED BY TESTING SERVICE. ACH LIFT. TEST SHALL BE AS FOLLOWS:

ND LOCATIONS FOR SUBGRADE AND BASE COURSES S TO THE OWNER AND ENGINEER WITHIN 72 HOURS RECOMMENDATIONS FOR ACTION. E WITH THE MOST CURRENT I.N.D.O.T. STANDARD O ON THE PREPARED SUBGRADE PRIOR TO PAVING. TION FOR ADDITIONAL COMPACTION REQUIREMENTS.

TION TO THAT PERFORMED IN ACCORDANCE WITH FINAL COMPACTION, TO THE REQUIRED GRADES AND

THERWISE UNSUITABLE MATERIAL AND REPLACE WITH I PREPARED SUBGRADE PRIOR TO PAVING. ELOW THE SUBGRADE SHALL BE COMPACTED TO AT DETERMINED BY THE PROVISIONS OF AASHO T-99. E COMPACTED SUBGRADE. ION OF ALL MANHOLE COVERS, VALVE BOXES AND

BE PAVED, AND MAKE, OR HAVE MADE, ANY COMPACTED SUBGRADE OR BASE FREE FROM LOOSE

ARP, TIGHT ENOUGH TO PREVENT LEAKAGE AND PE AND POSITION WITHOUT SPRINGING OR SETTLING. BE CLEAN AND SMOOTH IMMEDIATELY BEFORE SITED SO AS TO REQUIRE AS LITTLE REHANDLING AS

ACED AT AN ATMOSPHERIC TEMPERATURE OF 35 I.N.D.O.T. STANDARD SPECIFICATIONS SHALL BE

PREMOULDED AT ENDS OF ALL RETURNS AND AT A DED, CONTRACTION JOINTS SHALL BE SAWED JOINTS AS PLACED, AND FILL ANY HONEY COMBED PLACES. AND OTHER CORNERS TO RADII SHOWN.

SLOPE. MAKE ADJUSTMENTS ON SLOPES AT WALK COURSE CONSTRUCTION AND OF WIDTHS AND DETAILS

STEEL TROWEL TO A HARD DENSE SURFACE AFTER DIUM BROOM FINISH AND SCRIBE TRANSVERSE JOINTS ION JOINTS WHERE SIDEWALKS INTERSECT, AND AT A AS OTHERWISE SPECIFIED, CURE ALL CONCRETE BY RENT I.N.D.O.T. STANDARD SPECIFICATION.

SHALL BE AS SPECIFIED IN THE MOST CURRENT BE PERMITTED DURING UNFAVORABLE WEATHER OR IOWN ON THE DRAWINGS IS THE MINIMUM THICKNESS

HALL BE ACCOMPLISHED BY ROLLING WITH A SMOOTH ACT TO 95% COMPACTION USING STANDARD TESTING AND AT ALL PLACES NOT ACCESSIBLE TO THE PED WITH MECHANICAL TAMPERS OR WITH APPROVED

REQUIRED AS SPECIFIED IN THE PLANS AND SHALL BLISHED BY THE AMERICAN DISABILITIES ACT (ADA), E OF ABRUPT CHANGES WITH SIDEWALKS, GUTTERS BE (48) INCHES EXCLUSIVE OF FLARED SIDES.

SIDES AS SHOWN IN THE PLANS.

I PLACED AND ROLLED, PLACE SUCCEEDING STRIPS A. THE WORK UNDER THIS SECTION INCLUDES ALL STORM SEWERS, STORM WATER INLETS, AND RELATED ITEMS, INCLUDING EXCAVATING AND BACKFILLING NECESSARY TO COMPLETE THE WORK SHOWN ON THE DRAWINGS. B. IN THE CASE OF ANY CONFLICTS WITH THESE SPECIFICATIONS AND LOCAL, STATE, FEDERAL SPECIFICATIONS THE MORE STRINGENT SHALL APPLY. BOND BETWEEN ADJOINING WORK. CONSTRUCT JOINTS 2. STORM SEWER CONSTRUCTION

> 1. STORM SEWER STRUCTURES SHALL COMPLY WITH CURRENT SPECIFICATIONS OF THE CITY OF FRANKLIN AND ALL OTHER RESPONSIBLE AGENCIES IN RESPECT TO DESIGN AND QUALITY OF CONSTRUCTION. 2. ALL STORM SEWER CONSTRUCTION INSIDE PUBLIC RIGHT-OF-WAY, EITHER EXISTING OR TO BE DEDICATED, SHALL BE IN ACCORDANCE WITH THE MOST CURRENT I.N.D.O.T. STANDARD SPECIFICATION. 3. WHERE REINFORCED CONCRETE PIPE IS SHOWN ON THE CONSTRUCTION PLANS, IT SHALL BE IN ACCORDANCE WITH A.S.T.M. C-76 CLASS III WALL "C" UNLESS OTHERWISE SPECIFIED ON THE PLANS. 4. WHERE CORRUGATED METAL PIPE IS SHOWN ON THE CONSTRUCTION PLANS, IT SHALL BE 14 GAUGE ALUMINIZED UNLESS OTHERWISE SPECIFIED AND SHALL HAVE THE CONNECTING BANDS AND SEALS AS SPECIFIED BY THE MANUFACTURER. C.M.P. SHALL BE ALUMINIZED PIPE IN ACCORDANCE WITH A.S.T.M. A-444.

> 5. MANHOLES, CATCH BASINS AND INLETS SHALL BE PRECAST CONCRETE. A. IF THE CONTRACTOR ELECTS TO USE ALTERNATE PRECAST STRUCTURES, HE SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER PRIOR TO ANY CONSTRUCTION. 6. PRECAST CONCRETE AND STEEL FOR MANHOLES AND INLETS SHALL BE IN ACCORDANCE WITH A.S.T.M.

> C-478. 7. CASTINGS SHALL BE AS SHOWN ON THE DETAIL SHEET(S) FOR MANUFACTURER, TYPE AND MODEL NUMBER. 8. GRANULAR BACKFILL SHALL BE REQUIRED UNDER ALL PAVEMENT AREAS AND TRENCHES WITHIN FIVE(5) FFFT OF THE EDGE OF PAVEMENT. 9. ALL TRENCHES UNDER PAVEMENT SHALL BE COMPACTED TO 95 PERCENT MODIFIED PROCTOR.

A. PERMITS AND CODES: THE INTENT OF THIS SECTION OF THE SPECIFICATIONS IS THAT THE CONTRACTOR'S BID ON THE WORK COVERED HEREIN SHALL BE BASED UPON THE DRAWINGS AND SPECIFICATIONS BUT THAT THE WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS AS AMENDED BY ANY WAIVERS. THE CONTRACTOR SHALL FURNISH ALL BONDS NECESSARY TO GET PERMITS FOR CUTS AND CONNECTIONS TO EXISTING SEWERS.

B. LOCAL STANDARDS: THE TERM "LOCAL STANDARDS" AS USED HEREIN MEANS THE STANDARDS OF DESIGN AND CONSTRUCTION OF THE RESPECTIVE MUNICIPAL DEPARTMENT OR UTILITY COMPANY. C. EXISTING IMPROVEMENTS: THE CONTRACTOR SHALL MAINTAIN IN OPERATING CONDITION ALL ACTIVE UTILITIES, SEWERS AND OTHER DRAINS ENCOUNTERED IN THE SEWER INSTALLATION. THE CONTRACTOR SHALL REPAIR TO THE SATISFACTION OF THE OWNER ANY DAMAGE TO EXISTING ACTIVE IMPROVEMENTS. D. WORKMANSHIP: THIS WORK SHALL CONFORM TO ALL LOCAL, STATE AND NATIONAL CODES AND TO BE

APPROVED BY ALL LOCAL AND STATE AGENCIES HAVING JURISDICTION. E. TRENCHING: LAY ALL PIPE IN OPEN TRENCHES, EXCEPT WHEN THE LOCAL AUTHORITY GIVES WRITTEN PERMISSION FOR TUNNELING. OPEN THE TRENCH SUFFICIENTLY AHEAD OF PIPE-LAYING TO REVEAL ANY OBSTRUCTIONS. THE MIN. WIDTH OF TRENCH SHALL BE 1.25 TIMES THE OUTSIDE DIA. OF PIPE. SHEET AND BRACE TRENCH AS NECESSARY TO PROTECT WORKMEN AND ADJACENT STRUCTURES. ALL TRENCHING TO COMPLY WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS. KEEP TRENCHES FREE FROM WATER WHILE CONSTRUCTION IS IN PROGRESS. UNDER NO CIRCUMSTANCES SHALL PIPE OR APPURTENANCES BE LAID IN STANDING WATER. CONDUCT THE DISCHARGE FROM TRENCH DE-WATERING TO DRAINS OR

NATURAL DRAINAGE CHANNELS. F. SPECIAL SUPPORTS: WHENEVER, IN THE OPINION OF THE ENGINEER, THE SOIL AT OR BELOW THE PIPE GRADE IS UNSUITABLE FOR SUPPORTING SEWERS AND APPURTENANCES SPECIFIED IN THIS SECTION, SUCH SPECIAL SUPPORT, IN ADDITION TO THOSE SHOWN OR SPECIFIED, SHALL BE PROVIDED AS THE ENGINEER MAY DIRECT, AND THE CONTRACT WILL BE ADJUSTED.

G. BACKFILLING: BACKFILL SHALL BE PLACED AS SHOWN IN THE PLANS. NOTE THAT PVC & HDPE PIPE SHALL BE COVERED WITH 12" MINIMUM OF #8 STONE. COMPACT THIS BACKFILL THOROUGHLY, TAKING CARE NOT TO DISTURB THE PIPE. BACKFILL UNDER AND WITHIN 5 FEET OF WALKS, PARKING AREAS, DRIVEWAYS AND STREETS SHALL BE "B" BORROW OR EQUIVALENT GRANULAR MATERIAL ONLY AND THOROUGHLY COMPACTED BY APPROVED METHODS. H. MANHOLE INVERTS: CONSTRUCT MANHOLE FLOW CHANNELS OF CONCRETE SEWER PIPE OR BRICK, SMOOTHLY

FINISHED AND OF SEMICIRCULAR SECTION CONFORMING TO THE INSIDE DIAMETER OF THE CONNECTING SEWERS. MAKE CHANGES IN SIZE OR GRADE GRADUALLY AND CHANGES INDIRECTION BY TRUE CURVES. PROVIDE SUCH CHANNELS FOR ALL CONNECTING SEWERS AT EACH MANHOLE. I. SUBDRAINS: ALL SUBDRAINS SHALL BE OF THE SIZE SHOWN ON THE PLANS AND SHALL BE CONSTRUCTED TO THE GRADES SHOWN. ALL DRAINS CONSTRUCTED OFF-SITE AS PART OF THE OUTLET DRAIN WILL BE LOCATED

AS SHOWN. J. UTILITIES: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERITY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS WORK. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES BEFORE WORK IS STARTED. THE CONTRACTOR SHALL NOTIFY IN WRITING THE OWNER AND THE ENGINEER OF ANY CHANGES, ERRORS OR OMISSIONS FOUND ON THESE PLANS OR IN THE FIELD BEFORE WORK IS STARTED OR RESUMED.

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